# NATIONAL AERONAUTICS AND SPACE ADMINISTRATION CONTRACT No. NAS 7-100

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Technical Report No. 32-422

the Mariner R Project: VOLUME 2:

Progress Report

September 1, 1962—January 3, 1963

Volume II. Supplementary Documentation : Progress ...

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CALIFORNIA INSTITUTE OF TECHNOLOGY
PASADENA. CALIFORNIA

**JULY 1, 1963** 

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#### **Foreword**

The material presented herein has been assembled as supplementary documentation on the *Mariner R* Project. The purpose of this compilation is to provide a unified reference source in the event of future program reactivation. Because this information is of minor interest to most readers of the overall *Progress Report*, it is published as a separate volume, intended for limited distribution.

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## Abbreviations Used in this Report

A/C	Attitude Control	OPEI	Office of Public Education and Information
A-to-D	Analog-to-Digital		
AGC	Automatic Gain Control	PCA	Pyrotechnics Control Assembly
AMR	Atlantic Missile Range	PDP	Programmed Data Processor
$\mathbf{AU}$	Astronomical Unit	PN	Pseudo Noise
BECO	Booster-Engine Cutoff	PSK	Phase-Shift-Key
BIH	Built-In Hold	PS&L	Power Switching and Logic
B/R	Booster Regulator		
·		RF	Radio Frequency
CCF	Central Computing Facility	RSC	Range Safety Command
CC&S	Central Computer and Sequencer	RTC	Real-Time Command
CCW	Counterclockwise	RWV	Read-Write-Verify
CW	Clockwise		•
DCS	Data Conditioning System	SAF	Spacecraft Assembly Facility
D-to-D	Digital-to-Digital	SC	Stored Command
DE	Data Encoder	S/C	Spacecraft
DEC	Declination Angle	SDAT	Spacecraft Data Analysis Team
DEV	Design-Evaluation (Tests)	SFOC	Space Flight Operations Complex
DN	Data Number	SFOP	Space Flight Operations Plan
DSIF	Deep Space Instrumentation Facility	SPS	Scientific Power Switching
E/A	Electronic Assembly	SRO	Safety Range Officer
ECR	Engineering Change Requirement	STC	Systems Test Complex
2011	Zingineoring change Requirement	STP	Standard Temperature and Pressure
FA	Flight Approval	SYNC	Synchronization
F-F	Flip-Flop		oynem omzation
GM	Geiger-Mueller	TC	Temperature Control
GMT	Greenwich Mean Time	TA	Type Approval
GSE	Ground Support Equipment	T/M	Telemetry
НА	Hour Angle	TPS	Telemetry Processing Station
11/1	Tiour Angle	T-R	Transformer-Rectifier
IR	Infrared	TTY	Teletype
IDI	I Dec Per Islanda	TV	Television
JPL	Jet Propulsion Laboratory		
LMSC	Lockheed Missiles and Space Company	UT	Universal Time
		UV	Ultraviolet
NASA	National Aeronautics and Space		
	Administration	VCO	Voltage-Controlled Oscillator

## Supplement I

#### Mariner R Drawing Lists, 1962 and 1964 Missions

This Supplement contains the final distribution of drawing lists covering the flight hardware and ground support equipment (GSE) for *Mariner R* 1962 and *Mariner R* 1964. For accuracy and consistency, the tabulations are presented as photographic reproductions of the actual documents in JPL design-group files.

Nine separate lists are included as subsections A to I, comprising various categories and breakdown methods, and titled as follows:

- A. Mariner R 1962 Drawing List: Flight Numerical
- B. Mariner R 1962 Drawing List: Flight Numerical by Division
- C. Mariner R 1962 Drawing List: Offset (Generation Breakdown)
- D. Mariner R 1962 Drawing List: GSE Numerical
- E. Mariner R 1962 Drawing List: GSE Numerical by Division
- F. Mariner R 1964 Drawing List: Flight Numerical
- G. Mariner R 1964 Drawing List: Flight Numerical by Division

- H. Mariner R 1964 Drawing List: GSE Numerical
- I. Mariner R 1964 Drawing List: GSE Numerical by Division

In the *Numerical* lists, the drawings are arranged first by vendor, second by number. In the *Numerical by Division* groups, the drawings are classified first by cognizant Laboratory division, second by vendor, third by number. The *Offset* list is a drawing-generation breakdown, in which the Spacecraft Assembly is tabulated first, followed by all subassemblies, with the appropriate detail-drawing breakdown and next-assembly number for each.

The vendor-code notation is shown in Table 1, and the symbols used to indicate drawing-control status are defined in Table 2. Because of many variables, some of the revisions (change letters) shown are not the latest applicable. The assembly drawings in Figs. 1 and 2 are included for reference.

A group of 194 drawings (JPL numbers 8200161 to 8200375), shown on the *Mariner R* 1964 lists with STL as the vendor, are in the process of being returned to JPL control.

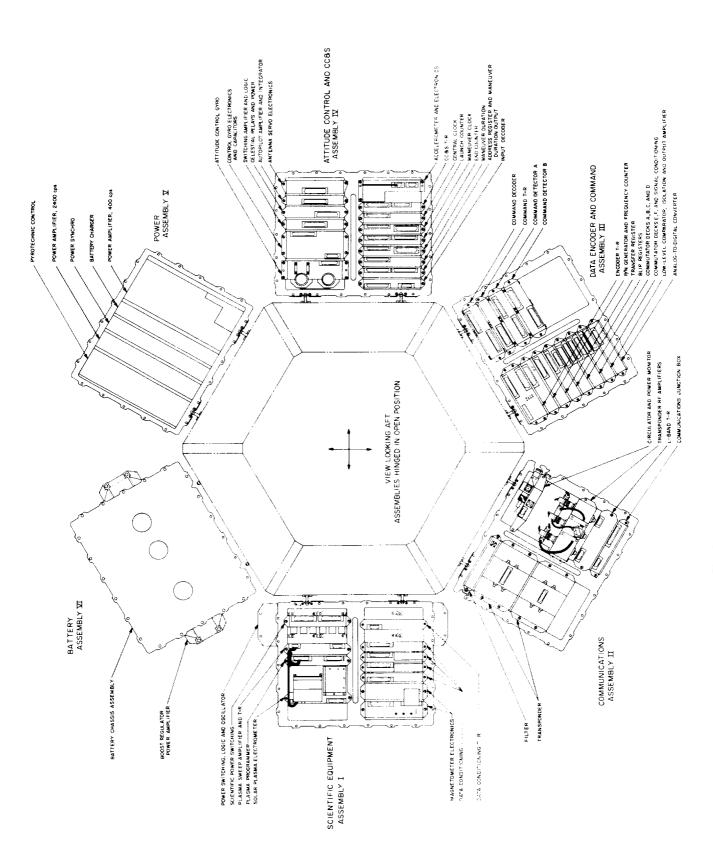
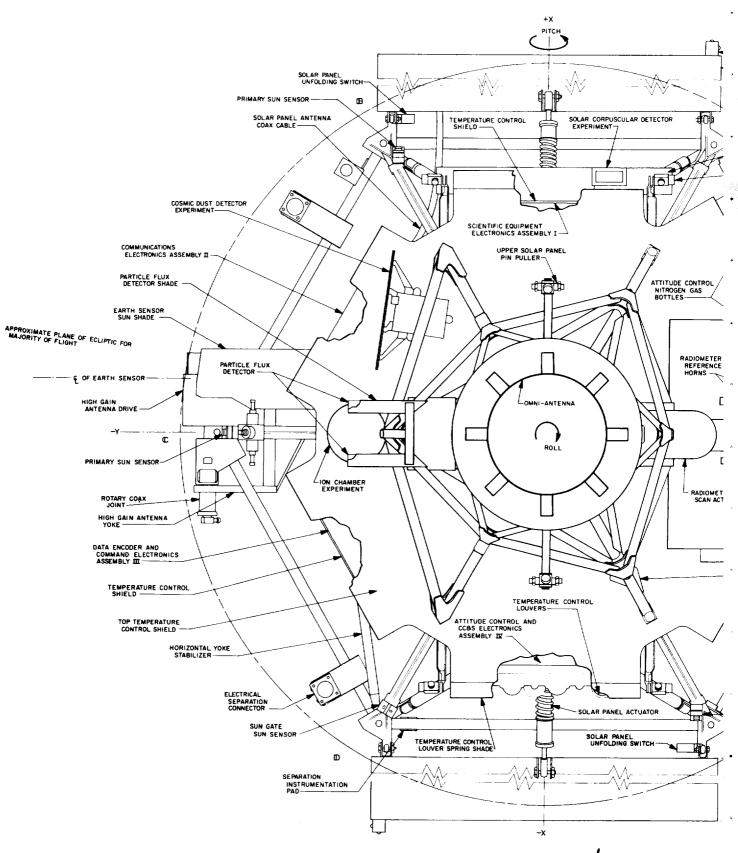


Fig. 1. Mariner R packaging assembly



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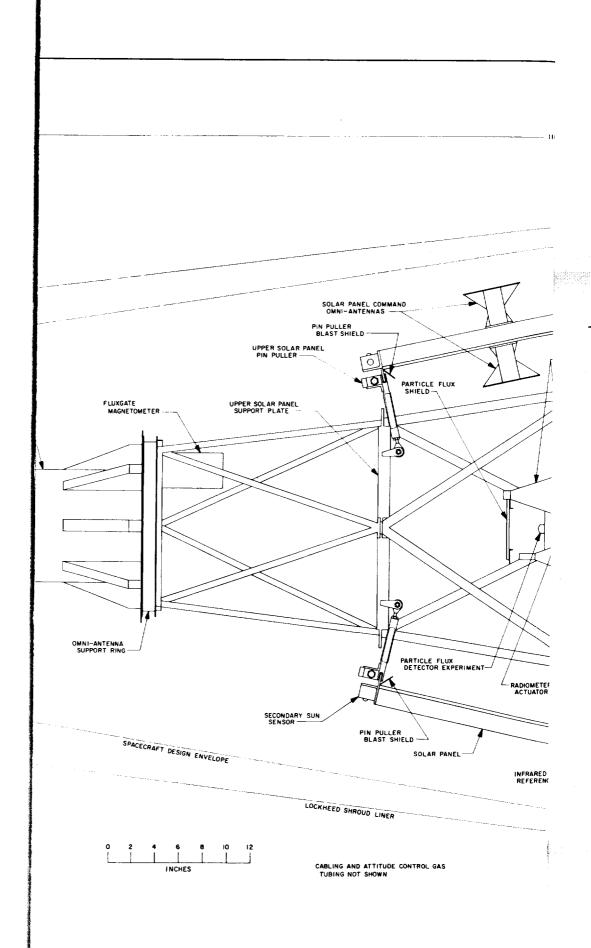
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- SECONDARY SUN SENSOR -- SOLAR PANEL (EXTENDED) - POWER SWITCH AND LOGIC ATTITUDE CONTROL YAW JET LOWER SOLAR PANEL PIN PULLER BATTERY ELECTRONICS
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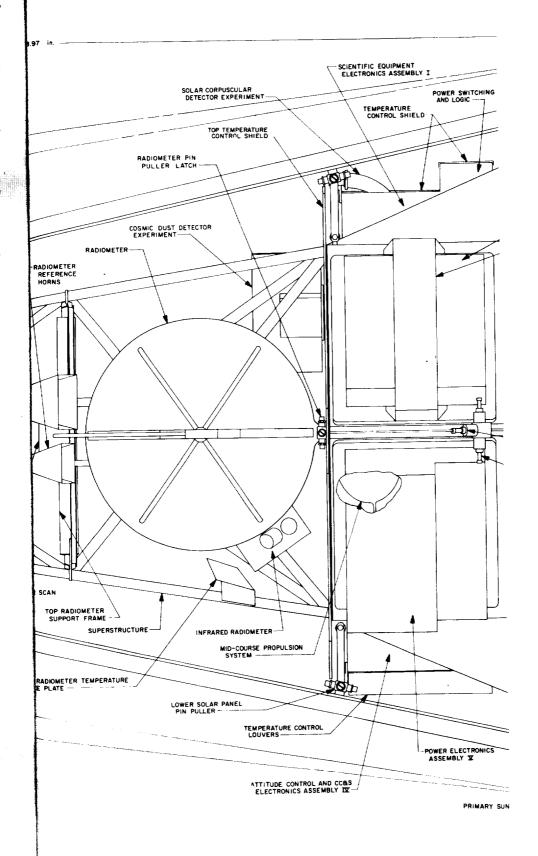
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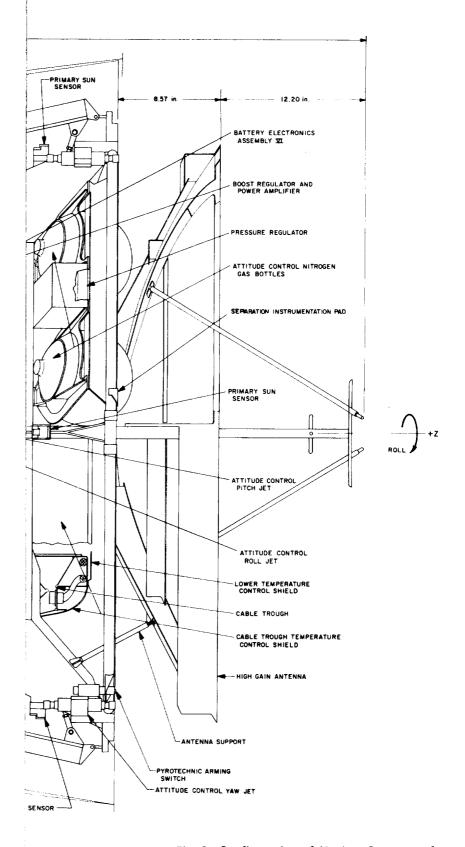


Fig. 2. Configuration of Mariner R spacecraft

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Table 1. Vendor code for Mariner R drawing lists

Code	Vendor
ADF	Aeronutronic Division, Ford Motor Company
AEI	American Electronics, Inc.
APL	Applied Physics Laboratory, Johns Hopkins University
ARC	Ames Research Center, NASA
ccc	Computer Control Corporation
csc	Consolidated Systems Corporation
EK	Ewen Knight Corporation
EOS	Electro-Optical Systems, Inc.
ESB	Electric Storage Battery Company
GAI	Groen Associates, Inc.
GLN	Glentronics, Inc.
GSF	Goddard Space Flight Center, NASA
HAC	Hughes Aircraft Company
нм	Horkey-Moore Associates
HOF	Hoffman Electronics Corporation
ITT	Federal Laboratories, International Telephone & Telegraph Corporation
JPL	Jet Propulsion Laboratory, California Institute of Technology
MIT	Massachusetts Institute of Technology
ML	Marshall Laboratories, NASA
мот	Motorola, Inc.
NLS	Non-Linear Systems, Inc.
NOR	Nortronics Division, Northrop Corporation
RAN	Rantec Corporation
RP	Radiophone Company
RYN	Ryan Aeronautical Company
SAN	Sandia Corporation
STL	Space Technology Laboratories, Inc.
<b>\$UI</b>	State University of Iowa
TI	Texas Instruments, Inc.
UC	University of Chicago
UCL	University of California at Los Angeles
UE	United Electrodynamics, Inc.
ZRO	Zero Manufacturing Company

Table 2. Code indicating drawing-control status

Code	Status			
j	Drawing meets the requirements of JPL Specification 20030 and has been released at JPL JPL has assumed drawing control.			
С	Drawing meets the requirements of JPL Specification 20030 and has been released at JPL. Contractor has retained drawing control.			
0	Drawing number has been assigned, but drawing has not necessarily been prepared. If prepared, drawing has not necessarily met the requirements of JPL Specification 20030 and has not been released at JPL. No drawing control has been established.			

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A. Mariner R 1962 Drawing List: Flight Numerical

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E	550717		Α	PWR SUP MK2 L-BAND	*	U	AEI	MA			33		0		4600312
C	850738		Α	ARTWORK TEMPLATE	*	U	AEI	MA			33		0	167210	550717
<u>C</u>	850741		Α	ARTWORK TEMPLATE	*	Ų	AEI	MA			33		0	167220	550717
Ċ	850749		Α	TRANSFORMER-PWR T401	*	U	AEI	MA			33		0	167300	550717
<u>c</u>	850750		A	SILKSCREEN	*	U		MA			33		0	167400	550717
D	950716		A	CHASSIS MK2 L-BAND	*	U	AEI	MA			33		0	167500	550717
D	950718		Α	ENV MK2 L-BAND POWER	*	<u> </u>		MA			33		0	167510	550717
D	950721		A	SCHEMATIC MKZ L-BAND		U	AEI	MA			33		0	167520	550717
D	950739	<u></u>	Α	COMPONENT BOARD REG				MA			33		0	167530	550717
D	950740		Α	COMPONENT BOARD REG	*	U		MA			33		O	167600	550717
D	950742		A	COMPONENT BD UNREG	*	U		MA			33		0	167620	550717
D	950743	ļ	A	COMPONENT BD UNREG	*	U	AEI	MA	R		33		0	167700	550717
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8	MR0005	Ì	3	D-A STEP STAIR DA#9	*	U	CCC	MA	R		32		0		
A	MR0007	<u> </u>	1	POWER SUPPLY SPEC	*	Ų	CCC	MA	R		32	1	0		
A	MR0010		3	CRD GATE SCHEM	*	U	ccc	MA	R		32		0		
A	MR0010		3	CRD-GATE CG#2	*	U	ccc	MA	R		32		0		
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5	MR0063			BLOCK SUBCHAS 20A23	*	Ů	CCC			32	<del>  -   -</del>	0			-
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۵	15000			ACTUATOR ASSY		ارزا	GAI	MA	P		35	0.2	63	c		4100309	
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	13030	L	L	LINEAR SPRING DAMPER	Ľ	٢	GAI	mA	ĸ		35	01	03		222000	4100309	
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	TBD0021			BOARD TERMINAL	*	U	GLN	МА	R		32			0			Ī
	TBD0022		Г	BOARD TERMINAL	*	U	GLN	MA	R		32			0	T		Ť
	20869		В	RADIOMETER SCHEMATIC	1	lu-	GLN	MA	R		32	ļ .	!	0	066400	4800339	1
~	20869	PL	Π	POWER SUP RADIOMETER			GLN				32			0		4800339	
	20871	l		POWER SUPPLY	*	lu l	GLN	MA	R		32			ō			J
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)	158100		E	LATCH ASSY	*	υ	нм	MA	R		35	02	63	C	19510	4100315	
					_												
Ц	90024	<u> </u>	L	COMPOUND POTTING			JPL					09		J	199600	4800406	1
3	90068	l	l	SPACER	l	lυ	JPL:	MA	R.		35	02	58	J	000500	4100306	ı
: [	90085	L	L	DIODE INSTALLATION		U					35	05	58	J	141200	4400042	
: 1	90086	l		DIODE INSTALL		U	JPL	MA	R		35	0.5	58	J	133800	4400011	1
	90088		Α	CONNECTOR MOUNT	L.	lυ	JPL.	MA	R!		35	04	58	ر	211400	4700308	
3	90089			PIN LOCATING		C	JPL	MA	R		35	09	58	J	084200	4200038	Ī
Ц	90089			PIN LOCATING DIAMOND	L	Ų	JPL	MA	R		35	09	58	J	201500	4200369	
ч	90091	i		RIVET INSPECTION		ΙυΙ	JPL	MA	R		35	05	58	J	185000	4100221	Ī
U	90091			ADHESIVE		lυ	JPL	MA	R		35	0.5	58	J	185300	4100222	1
١l	90091			ADHESIVE		С	JPL	MA	R		35	05	58	J	027800	4100331	Ī
Ы	90091			ADHESIVE	١.	lυl	JPL!	MA	R		35	0.5	58	J	084500	4200053	1
١I	90091			ADHESIVE		U	JPL	MA	R		35	0.5	58	J	093300	4200138	Ī
١I	90091			ADHESIVE	ĺ	u	JPL	MA	R		35	0.5	58	J		4200351	ı
1	90091			ADHESIVE		C	JPL	MA	R		35	0.5	58	J		4200352	Ī
١Į	90091			ADHESIVE		ΙŭΙ	JPL			- 1		05		ū		4200578	I
X I	90091		Г	ADHESIVE	Ī	ŭ		MA				05		J		4200580	t
1	90091			ADHESIVE		ΙŭΙ	JPL			- 1		05		Ĭ.		4200582	ŀ
X I	90091			ADHESIVE			JPL					05		Ĵ		4200617	t
	90091			ADHESIVE	1	lŭ.		MA	Ř				58	•	105800		1

R	RAWING	LI	s t	CALIFORNIA IN: MARINER I								CALIF		PAGE	5	4-11-6	
:	DRAWING NO.	BASH BO.	, c.	TITLE	:	51415	ener Cont			(1 708 1   179 7   117.	NE SP			DRAWING CONTROL STATUS		NEXT ASSEMBLY	T
Ī	90091		1	ADHESIVE	1	U	JPL	M,A	R	-	35	05	58	J	106200	4200627	1
	90091			ADHESIVE	L	U	JPL	MA	R				58		133900	4400011	
	90091		İ	ADHESIVE	ı	U	JPL	MA	R			05	58	j	138500	4400031	
	90091			ADHESIVE		U	JPL	MA	R		35	05	58	J	139800	4400034	
	90091			ADHESIVE	Γ	U	JPL	MA	R		35	05	58	J		4400042	
	90091		ľ	ADHESIVE	ı	U	JPL	MA	R	1	35	05	58	J	142100	4400043	
Ī	90091			ADHESIVE	Γ	Ū	JPL	M.A	R		35	05	58	J	185600	4400046	
1	90091		ľ	ADHESIVE	ı	υ	JPL	MA	R		35	05	58	J	186300	4400048	
1	90091		T	ADHESIVE	Г	U	JPL	MΑ	, 2		35	05	58;	J	186900	4400053	
1	90091		1	ADHESIVE	ı	lυ	JPL	MA	R		35	05	58	ن	187700	4400055	
1	90091			ADHESIVE	Г	U	JPL	MA	R		35	0.5	58:	j		4400083	
i	90091			ADHESIVE	ı	lυ	JPL	MA	R		35	0.5	58	ن	135500	4400089	
1	90091		T	ADHESIVE	Т	U	JPL	MA	R			0.5		J			
Ì	90091		1	ADHESIVE	ı	lυ	JPL	MA	R		35	0.5	5a	J		4800069	
Ī	90091		<b>-</b>	ADHESIVE	✝	ΙŪ	JPL	MA	R		35		58			4900312	
	90091		l	ADHESIVE	ı	Ιū	JPL	MA	R		35		58	Ĵ		4900314	
1	90092		1	TERMINAL INSTL	一	ΙŪ	JPL		R		35		58	<u>-</u>		4901003	
	90099			RESIN	ı	Ιŭ	JPL		R		35		58	Ĵ		4200053	
1	90099		T	CASTING RESIN	†-	ĺΰ	JPL.		R		35		58	J		4400013	
	90102		l	AUTOSYN CLAMP	ı	Ιŭ	JPL	MA			35	0.6	58	ī		4500122	
_	90116		†	TRANSISTOR MOUNT	✝	Ŭ	JPL		R		35	07	58	J		4400031	
	90119			INSERT HELI-COIL	ı	Ιŭ	JPL	МД			35		58			4200837	
_	90119		H	INSERT HELI COIL	1	ĺŭ	JPL		R		35		58.	J		4200846	
	90119			INSERT HELI COIL	ı	Ιŭ	JPL		R		34		62	Ĵ		4200849	
+	90119		-	INSERT HELI COIL	╆-	Ιŭ	JPL	MA			35		58	J		4200872	
	90126			NUT TRANSISTOR MOUNT		ľŭ	JPL		R		35	11	58	j		4400031	
4	90127		├	TRANSIPAD INSTALL	$\vdash$	Ü	JPL		R		35		58			4200025	
ļ	90127			TRANSIPAD INSTALL		lu.	JPL	MA			35	10	28	ن		4200025	
	90127		⊢	TRANSIPAD	Ͱ	U	JPL		R		35	10	58			4200409	
1	90127			TERMINAL		U	JPL		R		35					4200409	
+	90127	-		TRANSIPAD INSTL	╁		JPL		R		35	10	ર્ગ્ય . 58 -	ــــــــــــــــــــــــــــــــــــــ		4200502	
	90127		ĺ		ı	U			R		35		58	J			
-	90127			TRANSIPAD INSTL TRANSIPAD INSTL	-	U	JPL JPL		R		: 22 .	10				4200511	
į								1					58	-		4200512	
4	90127		+-	TRANSIPAD INSTL	+-	Ų.	JPL		∟Ŗ.		) į.	10.	23			4200521	
	90127			TRANSIPAD INSTL		U	JPL		, R		35		58	J		4200522	
-	90127			TRANSIPAD INCTAL	-	Ų	JPL		R		35		58	4		4200532	
	90127		ł	TRANSIPAD INSTAL	1	u	JPL		, R		35		58	j		4200538	
4	90127		١	TRANSIPAD INSTAL	<del> </del>	Ų.	JPL	MA			35		> 5.			4200539	
	90127			TRANSIPD INSTL		U	JPL		, R		35		58	J	396600	4200541	
	90127		<u>L</u>	TRANSIPAD INSTL		IU	JPL.	MA	. R		35	מו	58		097300	4200542	

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	DRAWING NO.	DATH BO.	45	TITLE	4	CLASS	VENTOR .		* 410	St 161	1111	1	15	CRAWING CONTROL STATUS		NEXT ASSEMBLY	ĺ
	00107				+-	+			P14L	THEU SIX.		*0.	71		0001.00		+
A	90127		l	TRANSIPAD INSTL	1	U	JPL	MA			35		58	~		4200551	
٩	90127		├	TRANSIPAD	+-	ĮU.	JPL	MA			35	10	5.6			4200582	
A	90127			TRANSIPAD INSTALL		U	JPL	МА					58	J	139900		
A	90127		ļ	TRANSIPAD	+	Ų	JPL	MA	_R_		35		58	J		4400043	
A	90127			TRANSIPAD	1	ĮΨ	JPL	MA			35		58	j	135600	4400089	
Ą	90127		<u> </u>	TRANSIPAD	1_	Ų.	JPL	MA			33		58	J		4500161	
4	90127			TRANSIPAD	1	U	JPL	MA	R		35		58	J		4800069	
4	90127		L.	TRANSIPAD INSTL	1_	Ų	JPL	MA	R		35		58			4800263	
4	90127			TRANSIPAD INSTL	1	U	JPL	MA	R				58	J	197200	4800365	
4	90127			TRANSIPAD INSTL	L	lu.	JPL	MA	R		35	10	58		192900	4800396	
١,	90127			TRANSIPAD INSTL	1	Ιu	JPL	İΜΑ	R		35	10	58	į.	193500	4800398	
١,	90127			TRANSIPAD INSTL	1	Ū	JPL	MA	R			10		Ū		4800402	
3	90143		m	BOOT POTTING	Т	Ū	JPL	MA	R		35	0.7	59	J.		4200600	
3	90153			SPLICE WIRE	1	Ĭ,	JPL	MA				03		. i		4400046	
1	90154		T	RESIN	+	Ιŭ	JPL	MA				07		J		4200580	
Ĺ	90154			RESIN	1	Ιŭ	JPL	MA			35		59	Ĵ		4400053	
ì	90163		t	O RING	+	Ιŭ	JPL	MA	R				59	J		4700318	
,	90163			O RING	1	Ιŭ	JPL	MA	R		35		59	<u>j</u>		4700322	
)	90163		-	O RING	+	ŭ	JPL	MA			35		59	J		4700326	
	90163			O RING	1	Ιŭ	JPL	MA	R		35	مَّوَ		,		4700320	
5	90164		r	FITTING END	+-	Ιŭ	JPL	MA				09				4700317	
	90190		Į	CUP POTTING	1	lu.	JPL	MA	R		35		59	,		4200033	
	90190		⊢	CUP POTTING	+	u.	JPL	MA			35						
5	90190		1		ı		JPL	MA			35		62	J		4400204	
-			-	NUT	+	U								<u> </u>		4700306	
	90250			NUT		U	JPL	MA			35		60	J		4700307	
_	90252		-	SCREW QUITLOCK	┺	U	JPL	MA			35		60			4200503	-
	90252			SCREW QUINTLOCK	1	U	JPL	MA			35		60	j		4200511	
Ц	90252		ļ	SCREW QUINTLOCK	╄.	Ų.	JPL	MA			35		<u>60 [</u>	J		4200523	
1	90252			SCREW QUINTLOCK	1	U	JPL	MA			35		60	J		4200532	
:	90252		Ļ.,	SCREW QUINTLOCK	↓_	U	JPL	MA	R		35.	0.7	60:	<u> </u>		4200563	
3	90252			QUINTLOCK STUD	1	U	JPL	MA			35	07	60 :	J	101500	4200573	
Ш	90252			SCREW QUINTLOCK	1_	u	JPL	MA	R.		35	Ω 7	اً مؤ		140000	4400034	
3	90252			SCREW QUINTLOCK		U	JPL	MA	R I		35	07	60	J	142300	4400043	
	90252		L	SCREW QUINILOCK		u	JPL	MA	R		35	ai l	60	J	077700	4900501	
,	90254		A	ASSEMBLY PHOTOCELL		u	JPL	MA	R		35	0.7	60	J	046400	4200666	
	90267			CAP	1	Ū	JPL	MA			35		60	Ĵ		4700318	
5	90267			CAP	Т	Ū	JPL	MA			35		60	J		4700322	
5	90267		1	CAP		Ū	JPL	MA			35	1 - 4	60	J		4700334	
-	90273		t	WASHER C SUNK	1	Ū	JPL	MA			35		6 C	J		4700301	
-	90273			WASHER C SUNK		111		MA	R			10		-		4700305	į

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) F	AWING	LI	s T	MARINER I	R	52	FLIG	HT N	UMERIO	CAL			PAGE	7	4-11-6	3
Ī	DRAWING NO.	\$15# #0.	5 5	TITLE	ŧ	3	72×000	PC PAL	CAST PCT 04 17EH	RESP.	# E L	79.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
╗	90273		1	WASHER C SUNK		ĺυ	JPL	MA R		35		60	J	210000	4700310	۳
В	90275		ļ	MOTOR SYNCHRONOUS		ΙŪ	JPL	MA R				60	Ĵ		4500122	
3	90283		П	WASHER SHOULDER	Ī	U	JPL	MA R		35	11		J		4400053	
3	90283		!	WASHER		U	JPL	MA R		35	11	60	Ĵ		4800300	
3	90284		Г	WASHER INSULATED	Г	Ū	JPL	MA R	T .	35		60	J		4800261	
3	90284		1	WASHER		U	JPL	MA R		35	11	60	J		4800300	
3	90284		Γ	WASHER INSULATOR	1	U	JPL	MA R		35	04	61	J		4800408	
١	90286			BOLT HEX HEAD		U		MA R		35	11	60	J	011600	4100303	1
•	90286		П	BOLT HEX HD		U	JPL	MAR	1	35	11	60	J	000200	4100309	T
١.	90286			BOLT HEX HEAD	l	U	JPL	MA R		35	03	62	J	020700	4100375	ŀ
Ĺ	90302			SURFACE TREAT	П	U	JPL	MA R		35	04	61	J	030800	4100204	T
١.	90302		L.	SURFACE TREATMENT		U	JPL	MA R		35	02	62	J	031100	4100210	l
_	90302			SURFACE TREATSHANDLE	П	U	JPL	MA R		35	04	61	Ĵ	184100	4100220	Τ
١.	90302		Ι.	SURFACE TREATSHANDLE		U	JPL	MA R		35	04	61	J	185100	4100221	١
	90302		П	SURFACE TREATGHANDLE	Г	U	JPL	MA R	T	35	04	61	J	185400	4100222	T
	90302		1	SURFACE TREATMENT		U	JPL	MA R	1	35	11	61	j	021300	4100377	Ì
_	90302		Α	SURFACE TREATMENT	T	U	JPL	MA R	1	35	02	62	J	028500	4100401	1
١	90302			SURFACE TREATMENT		lυˈ	JPL	MA R	1	35	02	62	J	204700	4100409	Ì
7	90302			SURFACE TREATMENT	Т	U	JPL	MA R		35	04	61	J		4100424	
	90302			SURFACE TREATMENT		υ	JPL	MA R	1	35	04	61	Ĵ		4100432	
٦	90302			SURFACE TREATMENT		Ū	JPL	MA R	T		04		J		4100446	
	90302			SURFACE TREATMENT		lυ	JPL	MA R	!			61	.J		4100447	
	90302			SURFACE TREATSHANDLE		Ū	JPL	MA R	1		0.4		J		4100474	
	90302			SURFACE TREATGHANDLE		υ	JPL	MA R	ì	35			J l		4100483	
	90302			SURFACE TREATGHANDLE	1	Ū	JPL	MA R	1		0.3	61	J		4200588	
	90302		1	SURFACE TREATMENT	l	υŪ	JPL	MA R				61	ار		4400210	
7	90302			SURFACE TREATSHANDLE		Ū	JPL	MA R			04		J		4600339	
.	90302			SURFACE TREATMENT		Ū	JPL	MA R	1			61	J.		4700301	1
	90302			SURFACE TREATGHANDLE		U	JPL	MA R		35	04	61	Ĵ		4700346	1
.	90302			MIRROR FINISH		υl	JPL	MA R		35	04	61	J		4800061	
Ū	90302			MIRROR FINISH		U	JPL	MA R			04		J	033700	4800062	
.	90302			SURFACE TREATSHANDLE	1	Ū		MA R				61	.i	183100		
7	90302			SURFACE TREATEHANDLE		U	JPL	MA R			04		J	144800	4800314	•
П	90302	- 1		SURFACE TREATMENT		ŭ	JPL	MA R				61	.i		4800343	Ì
1	90302			SURFACE TREATGHANDLE		Ū		MA R		_	04		J	199700		
	90302			MIRROR FINISH		ŭ		MA R				61	ĭ		4800410	
	90302		1	SURFACE TREATMENT	П	Ü		MA R			04		J	067800	4800427	
	90302			SURFACE TREATMENT		U		MAR		35			ا ر		4800428	
	90302			SURFACE TREATMENT		Ü	JPL	MA R	1		0.4	61	J		4800429	İ
	90302		1	SURFACE TREATEHANDLE	1 1	ŭ	JPi	MA R	1	35	04	61	-	203300		П

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DRAWING LIST 27.5 BAEN HO. CDC4 9 ta7. BIY. DRAWING NO. NEXT ASSEMBL**Y** TITLE 90303 TRANSIPAD INSTALL JPL MA R JPL MA R 35 02 61 35 02 61 A Ü 083800 4200034 90303 **IRANSIPAD** 085500 4200049 JPL MA R 086900 4200352 047800 4200409 90303 TRANSIPAD 35 02 61 35 02 61 35 02 61 35 02 61 35 02 61 90303 TRANSIPAD 091100 4200511 091800 4200512 095000 4200531 096700 4200541 097400 4200542 098500 4200551 TRANSIPAD INSTL TRANSIPAD INSTL TRANSIPAD JPL MA R JPL MA R JPL MA R 90303 90303 35 02 61 35 02 61 35 02 61 TRANSIPAD INSTL 90303 JPL MA R U JPL MA R 90303 TRANSIPAD 90303 IRANSIPAD INSTL 09500 4200551 099000 4200552 036400 4800344 193000 4800396 089200 4200501 096800 4200501 TRANSIPAD INSTL IRANSIPAD INSTAL JPL MA R JPL MA R 90303 35 02 61 35 02 61 35 02 61 35 02 61 90303 U JPL MA R TRANSIPAD INSTL 90306 TERMINAL U JPL MA R U JPL MA R 35 02 61 90306 TERMINAL STUD LOCK FEMALE U JPL MA R 35 02 61 35 03 61 083000 4200033 084700 4200053 086300 4200351 086500 4200503 90312 J SCREW LOCK MECH STUD LOCK STUD LOCK 35 03 61 35 03 61 35 03 61 JPL MA R 90312 n Jar 90312 90312 U JPL MA R 35 03 61 35 03 61 090500 4200513 092600 4200523 094500 4200523 094500 4200543 098000 4200553 099700 4200563 В 90312 STUD LOCK 35 03 61 35 03 61 35 03 61 35 03 61 8 0 90312 STUD LOCK U JPL MA R U JPL MA R 90312 STUD LOCK 90312 STUD LOCK U JPL MA R В STUD LOCK 90312 STUD LOCK U JPL MA R 35 03 61 35 03 61 35 03 61 STUD LOCK U JPL MA R 101600 4200573 103800 4200580 ₿ 90312 J STUD LOCK FEMALE 8 90312 U JPL MA R 35 03 61 35 03 60 143402 4400003 134000 4400011 STUD LOCK 90312 SCREW LOCK MECH STUD LOCK FEMALE U JPL MA R 35 03 61 35 03 61 138600 4400031 141400 4400042 В 90312 J 90312 35 03 61 35 01 62 185800 4400046 143300 4400204 В 90312 SCREW LOCK MECH U JPL MA R 90312 STUD LOCK FEMALE luljelima r 168500 4400214 168500 4600318 182200 4600333 189200 4800261 195700 4800263 198800 4800297 U JPL MA R 90312 STUD LOCK 35 03 61 35 03 61 90312 STUD LOCK FEMALE 90312 STUD LOCK STUD LOCK STUD LOCK FEMALE 35 03 61 35 03 61 35 03 61 35 03 60 U JPL MA R 90312

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1	DRAWING NO.	841R 80.	15	TITLE	ŧ	3	TE 1000		411 FOR 1111	CEST.		141	DRAWING CONTROL STATUS		NEXT ASSEMBLY
В	90313 90314		П	MALE LOCK ASSY CONNECTOR INSTALL	Γ	UU	JPL JPL	MA R MA R		35 35		61 61	J	083100 083200	4200033 4200033
čl	90314		-	CONNECTOR INSTALL	┼	Ŭ	JPL	MAR		35		61	<del>-</del> <del>-</del> <del>-</del> -		4200038
č	90314			CONNECTOR INSTALL		lŭ.	JPL	MA R			03	:	J		4200053
ċł	90314		$\vdash$	CONNECTOR INSTALL	1	ΙŬ	JPL	MAR		35		61	_ <del></del>		4200351
č	90314			CONNECTOR INSTL		ŭ	JPL	MA R				61	Ĵ		4200503
č	90314		$\vdash$	CUNNECTOR INSTE	-	lŏ	JPL	MA R	<b></b>	35	08	- 1	<del>- j</del> -		4200513
čΙ	90314			CONNECTOR INSTL		Ιŭ	JPL	MA R		35		61	Ĵ		4200523
č	90314		-	CONNECTOR INSTL	┼	Ť	JPL	MA R	1		0.8	1 - 1	J		4200533
čl	90314		}	CONNECTOR INSTL	j	Ιŭ	JPL	MA R	1	35	08	1	J		4200543
Ť	90314		-	CONNECTOR INSTALL	╁	n	JPL	MA R	+			61	<del>- j</del>		4200553
č	90314			CONNECTOR		ŭ	JPL	MA R	ĺ	1		61	.j		4200563
è	90314		<del> </del> —	CONNECTOR INSTE	+	Ū	JPL	MAR	<del> </del>	35		61	J		4200573
č	90314			CONNECTOR INSTL	1	u	JPL	MA R		35	08	i 1	Ĵ		4200580
_ 1	90314		┡-	CONNECTOR INSTE	+	ŭ	JPL	MA R		35	-	61	<del>-j</del>		4400003
	90314	İ	i I	CONNECTOR INSTALL	1	U	JPL	MA R	i	35	0.3		j	-	4400011
	90314		$\perp$		┺	ļ	JPL	MA R	ļ	35	1 -	1	J		
5			1	CONNECTOR INSTALL	ĺ	Ų			i		03		-		4400031
c	90314			CONNECTOR INSTL	┖	Ų	JPL	MA R		35		61	J		4400042
	90314		1	CONNECTOR INSTL		U	JPL	MA R	i	35	1 -	61	J		4400046
C	90314			CONNECTOR	↓_	U	JPL	MA R		35	01	62	. <u>J</u>		4400204
۲	90314		1 1	CONNECTOR INSTALL	ı	U	JPL	MA R	1	35	03	61	J		4600318
c	90314		1	CONNECTOR INSTL	1_	U	JPL	MA R	1	35	10	61	J	182300	4600333
टा	90314		_	CONNECTOR INSTL	Π	U	JPL	MA R		35	08	61	j	189300	4800261
c	90314		1	CONNECTOR INSTL	ı	U	JPL	MA R		35	08	61	J	195800	4800263
	90314		T-	CONNECTOR INSTL	T	U	JPL	MA R		35	08	61	J	198400	4800291
c١	90314		1	CONNECTOR INSTL	*	U	JPL	MA R	1	35	08	61	J	198505	4800293
↽	90314		<del> </del>	CONNECTOR INSTL	<u>†</u> −	U.	JPL	MA R	1	35	08	61	J	198900	4800297
c١	90314			CONNECTOR INSTL	ı	U	JPL	MA R		35	08	61	J	200100	4800298
₹	90314		1	CONNECTOR INSTL	1-	Ū	JPL	MA R	1	35	03	61	J	063000	4800300
c١	90314			CONNECTOR INSTAL	ı	U	JPL	MA R		35	03	61	j	064300	4800339
₹	90314		t	CONNECTOR INSTE	t-	Ū	JPL	MA R	1	35	03	61	<del></del>	068300	4800380
ċΙ	90314			CONNECTOR INSTL		U	JPL	MA R		35	03	61	j	071300	4900299
٦	90316		†-	SPECIMEN TENSILE	1	Ū	JPL	MA R	†	35	03	61	<del>- j</del>		4400031
Ã	90344	1	1	WASHER FLAT		Ιŭ	JPL	MA R	1		1 -	61	J		4800065
Ä	90346		A	SCREW MACH SOCKET HD	۰	Ü	JPL	MA R	<del> </del>		109	61			4100303
Â۱	90346		Ā	SCREW MACH SOCKET HD	1	Ιŭ	JPL	MA R	1	35	09	61	.J		4100304
A	90346		+``	SCREW INTERNAL WRNCH	+	Ŭ	JPL	MA R	+	35		61			4100304
Â	90346	İ	1	SCREW SOCKET HD	1	U	JPL	MA R		35	03	61	,		4100306
Â	90346		1	SCREW MACH SOCKET HD	+	U	JPL	MA R	+	35		+ +	<u>J</u>		
Â	90346		1			U		MA R			09	61	-		4100310
^	70340		1	SCREW INT WRENCH	1	ĮΨ	JPL	tene r	1	35	03	102	J	1 020800	4100375

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ı	DRAWING NO.	80°	1 5	TITLE	ŧ	3	74 NA44	<u> </u>		11 for 1119 THEV ICE.	#11**. #11*	8411 04	"	DRAWING CONTROL STATUS		MEXT ASSEMBLY	
	90346		$\vdash$	SCREW IN WRENCHING	╁	ΙŪ	JPL	MÄ		7410 115.	35	03		J	021600	4100400	+
	90346			SCREW MACH		ΙŪ	JPL	MA	R		35	03	61	J	183600	4100416	
	90346			SCREW MACH SOC HEAD	T	ΙŪ	JPL	MA	R		35	09	61	J	030500	4100419	_
١	90346		1	INTERNAL WRENCHING	ı	ļυ	JPL	MA	R		35	03	61	J	032600	4100445	
	90346			SCREW	T	lυ	JPL	MA	R		35	03	62	J	029700	4100462	
·	90346		1	SCREW	ı	lυ	JPL	MA	R		35	09	61	J	037800	4100464	
	90346		H	SCREW SOCKET HEAD	t	ΙŪ	JPL	MA	R		35	03	61		041000	4200588	^
	90347			SCREW PAN HD	ı	Ιū	JPL	MA	R		35	03	62	J	019200	4100315	
	90347		H	SCREW MACH PAN	+-	ΙŪ	JPL	MA	R		35	03	61		204000	4100410	-
·	90347			SCREW MACH PAN HD	ı	lυ	JPL	MA	R		35	03	61	J	183700	4100416	
	90347		1	SCREW MACH PAN HEAD	Т	ΙŪ	JPL	MA	R		35	03	61	J	030600	4100419	Ī
	90347			SCREW MACH PAN HD	ı	U	JPL	MA	R		35	03	61	J	075720	4900318	
	90348			SCREW MACH		U	JPL	MA	R		35	03	61	J	011800	4100303	
·	90348		A	SCREW MACH 100 D	1	lυ	JPL	MA	R		35	09	61	ل	011300	4100304	,
	90348		1	SCREW MACHINE	T	ΙŪ	JPL	MA	Ŕ		35	03	61	J	007300	4100306	,
·	90348		1	SCREW MACH FLT HD		U	JPL	MA	R		35	03	61	J	010500	4100310	į
П	90358		T	TRANSISTOR INSTALL	1	ÌŪ	JPL	MA	R		35	06	51	J	134200	4400011	
	90358			TRANSISTOR INSTL	1	lυ	JPL	MA	R		35	06	61	J	139100	4400031	
,	90362		1	WASHER FLAT	T	U	JPL	MA	R	-	35	07	61	J	011400	4100304	,
, !	90362			WASHER FLAT INSUL	1	U	JPL	MA	R		35	07	61	J	010600	4100310	J
3	90362			WASHER FLAT INSUL	Т	Ū	JPL	MA	R		35	0.7	61	J	032700	4100445	Ī
3	90392			WASHER INSULATION		U	JPL	MA	R	1	35	10	61	J	141600	4400042	
5	90393			SPACER	1	U	JPL	MA	R		35	10	61	J	141700	4400042	Ī
3	90394			NUT HEX JAM	1	U	JPL	MA	R		35	11	61	J	000300	4100309	į
,	90398	-	1	WASHER SHOULDER INSL	T	U	JPL	MA	R		35	05	62	J	010700	4100310	j
3	90398		1	WASHER SHOULDER		U	JPL	MA	R		35	05	62	J	032800	4100445	į
Γ	90399		t	PASS SST	1	U	JPL	MA	R		35	01	62	J		4200840	
	90401			PASSIVATION		ĮU.	JPL	MA	R		35	01	62	J		4200830	
Γ	90401		T	PASSIVATION	Τ	Ú	JPL	MA	R		35	01	62	J	051300	4200863	ĺ
į.	90410			HUCK RIVET INSTL	1	U	JPL	MA	R		35	04	62	J		4100303	
5	90568		T	O RING STANDARD	Г	ΤŪ	JPL	MA	R		35	01	60	J		3137127	
)	90568			O RING STANDARD	L	U	JPL	MA		L	35	01	60	J		4700304	
5	90568			O RING STANDARD	Т	Tu	JPL	MA	R		35	01	60	J		4700318	
>	90568			O RING STANDARD	1	ļυ	JPL	MA	ı R		35	01	60	J		4700320	
5	90568		T	O RING STANDARD	Т	U	JPL	MA			35	01	60	j	217700	4700321	
)	90568			O RING STANDARD	i	U	JPL			l	35		60	J	213400	4700322	
2.	90568		1	O RING STANDARD	Т	TU	JPE	1			35	ΟI	60	J	1	4700325	
)	90568			O RING STANDARD		Įυ	JPL	MA	k R		35	01	60	J		4700326	,
5	90568		1	O RING STANDARD	Т	ŤΨ	JPL	MA	R		35		60	J	216300	4700333	ī
)	90568		1	O RING STANDARD	1	lυ	JUPL	IMA	R	1	35	01	60	ن	216900	4700334	

DΙ	RAWING	i Ll	S 1	JET PR CALIFORNIA IN MARINER	STIT	UTE	OF TE	CHNOLOG	Y. PASAD	ENA.			PAGE	11	4-11-6	_
ř	DRAWING NO.	***	15		4	6449	7EMB43 C008	RELE MAJE SEPIAL	ASE FOR	1137. 117.		1411 178	DRAWING CONTROL STATUS		NEXT ASSEMBLY	T
D D	90568 90568		В	O RING STANDARD	T	U	JPL	MAR		35	OI	60	J		4700335	t
_	BH91021	-70	⊢	CASE 2 PAN HAR SCHEM	*	U	JPL	MA R		35	01	60	J	219800	4700338	L
4	101660	••		LAYOUT DRAWING	*	U	JPL JPL	MA R		33	١,,		9	İ		Γ
1	104208			SERVO ACTUATOR SCHEM		Ю	JPL	MR62	<b>├</b>	34	01	60	<del>-</del> -	L	<u> </u>	ļ
D	106101			AUTOPILOT SCHEMATIC		Ĭŭ	JPL			34	05	1	J	[	10(100	İ
0	106105			SUBCHASSIS AUTOPILOT	ł .	lŏ		MR62	<del> </del>		10		<del></del>	ļ	106100	ļ.
В	106106		A	SLEEVE INSULATOR	*	Ιŭ	ı	MR62			01		j	ł	4200300	ŀ
В	106106		A	SLEEVE INSULATOR	*	ΙŪ		MR62	<del> </del> -		σi		<del>-</del> _		106100	Ļ
В	106107			WASHER INSULATOR	*	U.	JPL	MR62		34			Ĵ		4200300	l
В	106107			WASHER INSULATOR	*	U	JPL	MR62			01		<del>- j -</del>		106100	╀
2	106120			SPACER ANTENNA & PHP	*	U	JPL	MR62		34	12	61	J I		106119	ı
2	106124			GUIDE ANTENNA & PHP	*	U	JPL	MR62		34		61	J		106119	1
2	106125			CAP-SEAL ANT & PHP	*	U	JPL	MR62	ļ	34	01	62	J		106110	ĺ
,	106125			CAP-SEAL ANT & PHP	*	- 1	JPL			34	01	62	J		106130	t
Ĥ	106126			INSULATION ANT & PHP		- 1	JPL	MR62		34	12	61	J		106110	
,	106126			INSULATION ANT & PHP				MR52		34					106130	H
4	106304			BATTERY SCHEMATIC	*	U	JPL	MA R		34			J		2011000	
	106421			L-BAND RF BLOCK DGM	,			MAR			12		J	182410	4600333	t
Н	118489		1.1	BLK DGM PAN COAX CBL		U		MA R		33	02	62	. J	182420	4600333	ı
á	119102				*	1 - 1	JPL	MA R			11	62	J			r
1	117102	-	Н	INTERCONNECT L-BAND	*	U	JPL	MA R		33			0	182430	4600333	
																ŀ
ì	123706			WAVEGUIDE POWER WIR 4-9-1				MAR								Ī
+	123707			COMM ENCODE	-			MA R		31	i		0			L.
	123708			SCIENCE RADIOMETER	ı	~ 1		MA R		31	í	- 1	0	i		
1	123709			L-BAND L-BAND	$\dashv$			MA R		31	i		0			_
1	123710	- 1	- 1	L-BAND COMMAND	ļ	- 1		MA R		31	-	j	ŏ			
1	123711			L-BAND ENCODER	-			MA R		31		-+	0			
١	123712			L-BAND ATT CONT				MA R		31	- 1	i	0	1	i	
†	123713			L-BAND WIRING	-			MA R		31			0			
ŀ	123714			COMMAND POWER	- 1			MA R		31	į	- 1	ŏ			
1	123715		1	COMMAND CCGS		- 1		MA R		31			ŏ			
١	123716			COMMAND ENCODER	- 1	- 1		MA R		31	i		o l			
Ť	123717			COMMAND ENCODER		Ū		MA R		31	!		0			
ł	123718		- 1	COMMAND ATT CONTROL	- 1			MA R		31	- !		6	l	İ	

_	_				_
*	DENOTES	CHANGE	70	PREVIOUS	L151

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CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.	
MARINER R 62 FLIGHT NUMERICAL	DAGE

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Ē	DRAWING NO.	BASE BO.	1 5	TITLE	1	3	104001		#410	151 FO4 F 1714	0119.		TAFA	DRAWING CONTROL		MEXT	Т
Ē-	123719		-	COMMAND SCIENCE	-		EODE		DAL	THED SEP.	OIY.	Mo.	14.	STATUS	l	NEXT ASSEMBLY	-
В	123720			POWER POWER	1	10	JPL	MA			31						T
B	123721		⊢	POWER POWER	١.,	U	JPL				31			0			
В	123722			POWER CC&S	1	U	JPE	MA			31	i	i	0			T
3	123723		⊢	POWER ENCODER	↓_	U	JPL				31			0		Ĭ	Į
3	123724		١.	POWER ENCODER	ı	V		MA			31			0			1
3	123725		۱.,	POWER ATT CONTROL	_	U		MA			31		1	0			1
3	123726		1	POWER PYRO		U	JPL			l i	31	- 1		0			7
3	123727		<del> </del>	POWER SCIENCE	┺	ļυ	JPL				31	j		o		1	1
3	123728			CC&S ENCODER	ı	U	JPL	1			31	Ì		0			1
3	123729		Н.	CC&S ATT CONTROL	╄	U		MA			31			0		ľ	-
3	123730			CC&S ATT CONTROL	ł	U	JPL	MA			31	l	- 1	0			7
H	123731			CCGS PYROTECHNICS	▙	U	JPL				31			0			Į
3	123732		Н			U	JPL				31	i	T	0			7
H	123733			CCGS WIRING	┖		JPL				31			_ 0			1
í	123734				1	U		MA			31			0			1
Н	123735			ENCODER ATT CONTROL	ļ		JPL				31	!		0		1	
	123736			ENCODER ATT CONT ENCODER PYRO		U		MA			31	1		0			†
Н	123737			ENCODER PIRO	_		JPL				31	!	_ 1	0		Ĭ	1
	123738			ENCODER WIRING	1		JPL				31			0			Ť
H	123739	_		ENCODER PROPULSION	Щ	u	JPL				31			0			ı
- 1						U	JPL		R	l i	31	- 1		0			T
3	123740			ENCODER THERMAL		U	JPL.	MA	R		31	!		0			1
	123741	- 1		ENCODER THERMAL	Ιi	U	JPL			- [	31			0			T
	123742			ENCODER RADIOMETER		Ų	JPL	MA	R I		31	į	- 1	0			ı
Ţ	123743			ATT CONT ATT CONT		U	JPL	MA	R		31	1		0			t
+	123744			ENCODER SCIENCE		U	JPL	MA	R		31		- 1	0			l
1	123745			ENCODER PLASMA		U	JPL ]	MA	R		31			0			t
4	123746			ENCODER PARTICLE FLX				MA			31	i	_1.	0			l
1	123747			ATT CONT ATT CONT		U	JPL	MA	R		31	1		0		T	t
+	123748			ATT CONT ATT CONT		υ	JPL	MA	R		31			0			l
ı	123749	1		ATT CONT WIRING	ı	U	JPL	MA	R		31			0			t
╁	123750		-4	AIT CONT SCIENCE		U	JPL	MA	R		31	_ [		0			-
- 1	123751			PYRO PYRO	- 1	U	JPL	MA	R		31			0			t
+	123752			PYRO PYRO		U	JPL	MA_	R		31	i		0			
1	123753	- [		PYRO PYRO		U	JPL	MA	R		31			0		1	t.
4	123754			PYRO WIRING			JPL				31	į		ŏ			1
	123755			SCIENCE SCIENCE	I	u	JPL	MA	R		31	t		0		†i	t:
1	123756			SCIENCE SCIENCE		ųΪ	JPL	MA	R	- 1:	31	- 1	- 1	0		}	ĺ
ı	123757	i		SCIENCE RADIOMETER	7	ΰĪ	JPL	MA	R		31	-+	-	0		†	t.
1	123758			SCIENCE MAGNETOMETER	- 1	ul	JPL	MA	R		31	- 1	- 1	0			

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_	AWING			MARINER F								ALIF.		PAGE	13	4-11-6	3
<u>к</u>	DRAWING NO.	L I	3 I	TITLE	÷	153	VI ****		****	IT CH	#115*. #17		1414	(IRAWING CONTROL STATUS		NEXT ASSEMBLY	T
1			-	SCIENCE MAGNETOMETER	-	U	JPL	MA	R	1900 312	3 i '	-1.	: " †	0			+
١	123759			SCIENCE PLASMA	ļ	10	JPL	MA	R		31			ō			- [
4	123760			SCIENCE COSMIC DUST	-	ŭ	JPL	MA	R		131		! !	- <del>5</del>			-1
١	123761			SCIENCE PARTICLE FLX	ì	Ĭŭ.	JPL	MA	R		31			ō			-
4	123762		H	SCIENCE RADIOMETER	$\vdash$	ü	JPL	MA	R		31			5			~
ı	1237631			RADIOMETER RADIOMETR	ļ	lű	JPL	MA	R		31			o o			1
1	123764		-	MAGNETOMETER MAGNETR	+-	ŭ	JPL	MA	R		31		† • • †	<u> </u>			T
ļ	123765			MAGNETOMETER MAGNETR		ŭ	JPL	MA	R		31		1	Ö			- [
1	123766		⊢	PARTICLE FLUX ION	+	Ü	JPL	MA	R		31	·	1 1	· · <del>5</del>			
1	123767			PARTICLE FLUX ION	1	11	JPL	MA			31			Ü			i
1	123700		-	ANTICLE CONTRACT		Ĺ						-					-
	3134311		<del> </del>	NEEDLE	╁	Ų	JPL	MA	R		1.		59 59	<del>.</del> j	218900 213500	4700318 4700322	
ı	3134311			NEEDLE	┺	U	JPL	MA			36	11	A			4700322	_
- 1	3134311		В	NEEDLE		Ū	JPL	MA	R		138	1	1591	J		4700334	
	3134501	L	_	PLUG	╄	U	JPL	MA	R		138.	)	59	<u> </u>			_
1	3134573		i	UNION		Ų	JPL	MA	R		38	06	60	J		4700326	
_	3137127		C	BODY VALVE ASSEMBLY	1	Ų	JPL	MA	R		3.8	0.6	62				
۱	3151037	1		SHIM	1	U	JPL	MA				106	6.0	١		4100384	
	3151049	<u> </u>	<u>B</u>	BRACKET CONNECTOR	↓_	U	JPL	MA			3.5	11.	60	. 4		4100306	_
:	3151049	1	В	BRACKET CONNECTOR	1	U	JPL	МΑ	R		35	11	60	J		4100306	
	3151049	1	В	BRACKET CONNECTOR	1	U	JPL	MA			3.5		60			4100525	
)	3151066	l	C	GROUND PLANE	*	U	JPL	MA				101	63	j		4100436	
	3151068	1	8	STIFFENER	*	V	JPL	MA			35	01	63			4100436	
	3151073	T	C	CAP	1	U	JAL	MA		l	3.5	101	61	J		4100322	
:	3151078	L	C	PLUG	*	Ų	JPL	MA			132	0.1	163	<u>J</u>		4100324	
	3151080		E	SHELL CONNECTOR	*	J	JPL	MA			35	01	6.3	J		4100323	
ò	3151087	L	В	STUD THREADED 4 FT	*	U	JPI.	MA		ļ	35	101	163	7		4100331	
_	3151095		TD	GEAR COMPOUND ASSY		N	JPL	MA			34	10	0)	J		4200600	
:	3151096		C	GEAR SPUR ANT DRIVE	1	įΨ.	+	MA			134	110	191.			3151095	
	3151097		C	GEAR HELICAL R.H.		U	JPL	MA			34	110		J		3151095	
	3151098	L	E	GEAR HELICAL ANT DR	1	Ų	+ 7	MA		ļ	34	.10	161	J	044400		-
	3151102	1	A	POTENTIOMETER GEAR		U		MA			134	110				4200600	
1	3151105		D	PINION FINAL DRIVE	*			MA		ļ	34	1,4		J		4200600	
:	3151106		Ī	WORM SHAFT ANT DRIVE	- 1	U	1 -	MΑ			134		[61]	J	044700		
	3151107	L	٥	WORM SHAFT ANT DRIVE	1	IJ	-	MA	_		34	Ţīç		. 4		4200600	
3	3151110		C	GEAR SPUR ANT DRIVE	ĺ	ΙÚ		MΔ		1	3.4	110		J	044900		
,	3151111			GEAR SPUR	1	19.1	IPL	MA	8	í .	34	110	161	٠	045000	4200600	2

				JET PR		-									DATE LISTE	٥
ם מ	AWING	11	s t	MARINER F									PAUL	14	4-11-6	3
1	DRAWING NO.	PASH NO.	4 :	TITLE	ź	3	* C = D B		MAJO	SE FOR	2115.	P1   6494	CONTROL		NEXT ASSEMBLY	1
В	3151115		A	RETAINER BEARING ANT	H	U	JPL	MA	R	100.00	34	10 61	1 5	045100	4200600	1
В	3151116		A	RETAINER BEARING ANT	L	U	JPL	MA	₹		34	10 61	<u> </u>	045200		
J	3151118		F	HOUSING GEAR ASSY		U	JPL	MA	R		34	10 [6]	J	013100	4100384	
В	3151119		C	SHAFT WORM GEAR ANT	L	Ų.	JPL	MA	R		34	10 61		045300	4200600	•
C	3151122		C	GEAR SPUR ANT DRIVE		Ų	JPL	MA	R		34	10 61	J	045400	4200600	
	3151125		8	SPACER ANTENNA DRIVE	↓_	U	JPL	MA	R		34	10 51	1 -		4200600	
В	3151126		A	BUSHING ANT DRIVE	İ	U	JPL	MA	R		34	10 61	ا ا	045600	4200600	
<u> </u>	3151129		В	CONNECTOR ASSEMBLY		Ψ.	JPL JPL	MA	R R		35	05 60	J		4100320 3151129	
Ď	3151130		A	BODY	l.	U	JPL	MA	R	l	39	01 63		022000	1	
_	3151131		A	INSULATOR CONN R ANG	*	1×	JPL	IMA	R		35		<del>-</del>	022100	3151129	
	3151132		A	INSULAT CONN R ANGLE	*	U	JPL	MA	R		35	01 63			3151129	
<u>В</u> С	3151133		B	CONTACT R ANGLE CONN COUPLING R ANGLE	*	Ü		IMA IMA	R		35	01 63	† - <del></del>		3151129	
ċ	3151138		A	DRIVE ANTENNA SCHEM	ľ	l.	JPI	MA	R	ļ	34	08 62	1 1		4200600	
B	3151141		В	CAP ASSY	-	Ü	JPL	MA	R		35	06 61	† J		4100310	
_	3151157		В	STUD	*	lu.	JPL	MA	R	ł	35	01 63	J		4100324	
В	3151165		A	SPACE R ANGLE CONN	*	Ū	JPL	MA	R		35	01 63	1 5		3151129	
c	3151166		A	BUSHING COND R ANGLE	*	ĺυ	JPL	MA	R		35	01 63	J	022500	3151129	1
B	3151174		В	NUT PLAIN HEXAGON	*	Ū	JPL	MA	R		35	01 63	J	022600	4100320	T
D	3151183			MTG LOC ALIGN DEVICE		Ų.	JPL	MA	Я		35	05 60	⊥	012000	4100303	↓.
C	3151193			CLIP ELECT DISCONN		U	JPL	MA	Ř			11 60	j	012100	4100303	İ
Ç	3151194		8	BRACKET EL DISCONN	_	ļυ	JPL	MA	R		35	.05  61		.011000		
C	3151723		A	ANGLE INSIDE		U	JPL	MA	R		35	102 62	J	012200	4100303	
C	3151724		Α	ANGLE FRAME	L	U	JPL	MA	R		35	04 62	J	012300	4100303	
J	3151749		C	PLATE GEAR ANTENNA	*	ĮΨ	JPL	MA	R		34	12 62	[ J	045500	4200600	- 1
D	3151751		₿	GEAR ANT -BACKLASH	<u> </u>	ļΨ	JPL	MA	2	ļ	34	10 61	. J		4200600	
В	3151753		١.	SERVO MTR GEAR TRAIN	*	Į.	JPL	LMA.	R	i .	34	12 62	-		4200600	
Ç	3151777	L	A	BRACKET ACTUATOR	ļ -	ĮŲ,	14r	MA	Ĥ.	:		00 62	1	012400	4100303	-+
٦	3151781		В	HOUSING COAX JT		J.	JPL	MA	Ŕ	1	35	02 62	1 1	013200	4700384	
Ċ	3151800		╀	WASHER	ļ	<u>با</u>	IUPL IUPL	MA	K		3 <u>5</u>	03 61		215700	4700304	
C B	3151800		١.	WASHER	1	U	JPL	MA	R	ļ	35	03 61	1 1	032200	4100443	
В	3151862 3151864		A	SCREW BUMPER BRACKET PIVOT ARM	+	Ŭ	JPL	MA	R	<del> </del>	35	03 62		032300	4100443	
ö	3151959		a	COVER HOUSING	+	ľű	JPL	MA	R		35	09 02	1 .	011015	1	
ć	3151960		10	COVER ASSY HOUSING	*	Ť	JPL	MA	R	t	35	11 51	<u> </u>	011010	4100310	
J	3151961	1	В	HOUSING GEAR ASSY	*	Ιŭ	JPL	MA	R		35	01 63		013300	4100384	
č	3152162		tč	NEEDLE VALVE BLEED	*	Ü	JPL	MA	R		38	10 62	15-	041410	4200592	
D	3152416		A	HOUSING SUN SENSOR	*	U	JPL	MA	R	1	34	12 62	نــــــ الـــــــ الـــــــــــــــــــ	008100	3172584	┙.
В	3152417		T	COVER	Γ	W	JPL	MA	R	Ī	34	06 60	J 3	002400	4200673	آ ا
В	3152417	l	1	COVER	*	١	JPL	MA	R	L	134	108 160	1 .	008200	3172584	

				JET PR	O P	U	LSIO	N LA	BORA	TOR	Y				F	
				CALIFORNIA INS	TIT	UTE	OF TEC	HNOLOG.	Y, PASAD	ENA,	CALIF.				DATE LISTES	٠
D	RAWING	LI	s T	, MARINER F	۲ (	2	FLI	aht Ni	JMERI:	CAL			PAGÉ	15	4-11-6	ہ ا
Ē	DRAWING NO.	945H HD.	15	TITLE	1	3	STABOR		ASE FOR 4 1764	PE 1.P.		14	DRAWING CONTROL		NEXT ASSEMBLY	3
F	2152122		<u> </u>		_	<b>↓</b>		SIDIAL	THE SEE.	-	<b>₩</b> 0.	78.	STATUS		<b></b>	
C	3152423		B	TB SECOND SON SENSOR	*	U	JPL	MA R		34	12		ب	003100	4200673	
_	3152423		В	TB SECOND SUN SENSOR	*	Ų	JPL	MA R	-	34	12	62	<u>J</u>	008300		+ -1
B	3152424		В	MASK SUN SENSOR 15	*	U	JPL	MA R		34	12	62	J		3172586	i I
8	3152424		B	MASK SUN SENSOR	*	Ų.	JPL	MA R	ļ	34		62			3172586	
8	3152425		В	MASK FLAT SUN SENSOR	*	U	JPL	MA R	ļ	34		62	J	003240	3172588	İΙ
븀	3152426		B	HOUSING SUN SENSOR	*	Ų	JPL	MA R		34		62	<u> </u>		4200673	↓ <b>⊣</b>
la.				MASK SUN SENSOR 40	*	U	JPL	MA R		34	12	62	J		3172587	l 1
10	3152485		В	MASK SUN SENSOR 40	*	U	JPL	MA R		34	12	62	J		3172589	↓I
l B	3152485		В	MASK SUN SENSOR 40	*	U	JPL	MA R	i	34	12	62	J	003260	3172590	
18	3152595		C	TRANSFORMER	_	U	JPL	MA R		34		61	J		4400053	1 1
c	3152596		C	SUPPORT PHOTO CELL		U	JPL	MA R	l	35		60	J	046500	4200566	i
8	3152616		C	SHIELD LIGHT SENSOR	<u> </u>	U	JPL	MA R		35		62	<u>J</u>	046600	4200666	ا ۔۔۔ ا
1 -			5	TM1 TRANSFLUXOR	ŀ	U	JPL	MA R		34	ı - :	62	ب		4200538	
В	3152616		D	TM1 TRANSFLUXOR	<u> </u>	U	JPL	MA R		34	09				4200573	
B	3152616		D	TM1 TRANSFLUXOR		U	JPL	MA R		34	1 - 1	62	J	103210	4200573	ιI
В	3152617		D	TM2 TRANSFLUXOR	L	υ	JPL	MA R		34		62	J		4200538	↓_
B	3152617		D	TM2 TRANSFLUXOR		U	JPL	MA R		34	1	62	ن		4200573	ıl
8	3152617		D	TM2 TRANSFLUXOR	L_	U	JPL	MA R		-		62	J		4200573	
	3153000		(	ENGINE ROCKET ASSY		U	JPL	MA R	i	38	(* )	61	J		4700311	
Ü	3153010		Α	ENGINE WELDMENT	_	U	JPL	MA R		38		61	J		3153000	1
13	3153011		C	INJECTOR ASSEMBLY	*	U	JPL	MA R			. · i	62	J	207300	3153010	1 1
В	3153012		8	CLOSURE	L	Ų_	JPL	MA R				61			360056	
ь	3153013			NOZZLE SPRAY PROPPL		U	JPL	MA R	İ	38		61	J	207900	3153032	
В	3153014			NOZZLE SPRAY OXIDZR		U	JPL	MA R		36		60	J	209000	3153035	i I
5	3153015		D	SCREEN		U	JPL	MA R				61	J	209400	3153019	
C	3153015		D	SCREEN		U	JPL	MA R				01			3153022	1
C	3153015		D	SCREEN		U	JPL	MA R		38		61	J		3153026	
2	3153015		D	SCREEN	L	U	JPL.	MA R	ļ	3.8		61	J	207500	3153030	1
0	3153016		D	DOME INJECTOR		U	JPL	MA R	ĺ	38		61	J	208000	3153032	
1	3153017		В	SHELL	Щ.	Ų.,	JPL	MA R		38		61	- <u>J</u>		3153034.	. 1
C	3153019		В	NOZZLE WELDMENT		U	JPL	MA R		38		61	J	209300	3153033	
-	3153020		A	NOZZLE	_	U.	JPL	MA R	<u> </u>	38		61			3153019	
В	3153021		В	ROD SUPPORT	i	U,	JPL	MA R		38		61	J	209600	3150019	1
5	3153022		A.	TUBE PROPELLANT	Ш	Ų.	JPL	MA R	<u> </u>	38	1	₽ <b>0</b> ↓			3154043	- 1
Ç	3153023		A	TUBE SECTION FWD		U	JPL.	MA R		38		61	J		3153022	1 1
Ç	3153024		A	TUBE FLANGE SECT		Ų	JPL	MA R	L			6 i	<u> </u>		3153022	_
C	3153026			TUBE OXIDIZER WELD	li	U	JPL	MA R		38	08	60	J		3153032	. 1
В	3153027		Α	TUBE OXIDIZER SECTN	L	Ų	JPL	MA R	<u> </u>	38	04	61	J		315 <u>0</u> 035	
В	3153028			TUBE OXIDIZER		U	JPL	MA R		38		66	J		3153026	, I
В	3153029		_	FLANGE OXIDIZER BLNK		U.	JPL	MA R	L	38	loai	60.		208900	3153032	

R	RAWING	L1	s T	CALIFORNIA INS MARINER F							-	CALIF.		PAGÉ	16	4-11-6
	DRAWING NO.	80.	<b>1</b> 5	TITLE	<b>5</b>	į	C008		***	THEU ICE.	PESP.	) i i	TASE TE	DRAWING CONTROL STATUS		HEXT ASSEMBLY
	3153030		Α	INJECTOR WELDMENT	_	U	JPL	MA	R		38	03	61	Ĵ.	207400	3153011
	3153031		В	INJECTOR COATED	L	U.	JPL	MA	R		38	0.3	61	J	207600	3153030
	3153032		A	INJECTOR WELDMENT	Ι_	U	JPL	MA	R		38	03	61	J	207700	3153031
	3153033		C	SHELL WELDMENT	L	U	JPL	MA	R		38	05	61	J	209200	3153010
	3153034		Α	SHELL COATED	i	U	JPL	MA	R	ĺ	38	10	60	J	209700	3153033
	3153035			TUBE OXIDIZER SECTN		U	JPL	MA	R	l	38	80	60	J	208800	3153026
_	3155003		C	SHELL HALF UPPER	Г	U	JPL	MA	R		32	09	61	j	033900	4800063
	3155004		D	SHELL HALF LOWER		lυ	JPL	MA	R	İ	32	09	61	J	034000	4800063
i	3155005			TUBING	Г	υ	JPL	MA	R		32	80	59	L	034100	4800063
	3155009		В	DOUBLER TUBING	L	lυ.	JPL	MA	R	L	32	0.5	60	J	034200	4800063
	3155010		В	DOUBLER	Γ.	U	JPL	MA	R		32	05	60	J	034300	4800063
	3155011		В	DOUBLER NECK	L	lυ	JPL	MA	R		32	0.5	60	J	034400	4800063
	3155033		Α	PAD		U	JPL	MA	R		33	06	60	j	056100	4600183
	3155035		Α	OUTER CHOKE SPACER	١.	U	JPL	MA	R		33	04	60	J	056200	4600183
٦	3155036		Ç	BEARING SLEEVE	Г	U	JPL	MA	R		33	04	60	J .	056300	4600183
	3155037		в	RETAINER RING		lυ	JPL	MA	R		33	04	60	J	056400	4600183
	3155066			OUTER CHOKE CYLINDER		U	JPL	MA	R		33	06	60	J	056500	4600183
	3155067		В	COAXIAL LINE CYLINDR	1	lυ	JPL	MA	R	1	33	06	60	ٰ ل	056600	4600183
1	3155068		A	COAX LINE CNTR COND	Г	Ū	JPL	MA	R		33		60	Ĵ	056700	4600183
	3155070		Α	COAX LINE SPACER	ſ	lu.	JPL	MA	R	1	33	06	60	, i	056800	4600183
Ī	3155072		A	INNER CHOKE CNTR CON	Γ.	U	JPL	MA	R		33	06	60	J	056900	4600183
	3155134			CYLINDER SUPPORT	1	Ĭŭ.	JPL	MA	R	1	33	0.6		Ī.		4600340
Ī	3155136		A	ADAPTER CONNECTOR	_	Ű	JPL	MA	R		33	_	60	J .		4600183
	3155137			SHIM		ŭ	JPL	MA	R		33	06		J i		4600183
~	3155147			GROUND PLANE LOWER	1	ŭ	JPL	MA	R		33		60	· ·		4600340
	3155272		ΙΔ .	CONDUCTOR CENTER		ŭ	JPL	MA	R		33		60	í		4600340
	3155273			PLUG INNER TUBE	-	tυ	JPL	MA	R		33		60	J		4600340
	3155274			NUT RETAINING	1	Ŭ	JPL	MA	R		33		60	ار		4600340
	3155275			WASHER SUPPORT LOWER	-	ŭ	JPL.	МА	R		33		60	J		4600340
	3155276		١.	WASHER SUPPORT UPPER		ŭ	JPL	MA	R		33		60	1		4600340
+	3155277			SPACER		ŭ	JPL	MA	- <u>/\</u> -	<del>                                     </del>	33		60 1	J		4600340
ı	3155278		1	CRANK JOINT ROTARY		Ü	JPL	MA	R		33	07.	1	,		4600183
+	3155281		-	CONNECTOR RIGHT ANGL	-	U	JPL	MA			33	0.9		J	058900	4600340
	3155450		1	BRACKET CENTER		U	JPL	MA	R		33		60	J .	058100	
+	·				<del> </del> -	U	JPL	MA	R	<del> </del> -				¥		
	3155451		١,	DOUBLER CENTER	l	u	JPL	MA	R.		33	10		J	059000	4600340
_	3155525		Α.	CONDUCTOR CENTER		+ <del>-</del>	+	+	R	<del> </del>			60		056300	3155272
	3155540			CUP MOUNTING		U	JPL	MA			32	0.3	1	٠	035100	4800053
4	3155541		-	SPIDER	<del> </del> —	ļ <u>u</u>	JPL	MA	R		32		61		035200	4500063
1	3155543			GASKET SCAL		U	JPL	MA	R;	1	32		61	J	033300	4800065
	3155544			CAN SHIELDING		W.	JPL	MA	R	<u> </u>	32	0.3	61		035300	14800083 181 0513 JUN

JET P	ROPULS	ION	LABC	RATOR	łΥ
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D R	AWING	LI	5 T	MARINER I	₹ (	52	FLI	5H <b>T</b>	Νt	MERIO	AL			PAGE	17	4-11-63
		111×	32		1.	1173	11 1001	П		it for	1617	P4. 14		DRAWING		NEXT 5
3	DRAWING NO.	₽Q.	3 :	TITLE	5	3	EG 0 8	411		T-RE 169.	117.		,.	STATUE		ASSEMBLY
8	3155545		Г	QUARTZ		U	JPL	MA			32	03	51	J		4800083
В	3155546		L	PIN CONTACT	L	U	JPL	MA			32		61		035500	4800083
В	3155547		1	PIN OFFSET CONTACT		U	JPL	MA	R	i	32	03	51 j	J	035600	4800083
В	3155601		İ	MODIFICATION ANTENNA	1.	U	JPL	MΑ	R		33	loil	51	J	059100	4600340
Ü	3157103		C	SUPPORT CONT ASSY	П	U	JPL	ΜĀ	R		38	09	51	ل	210100	4700310
C	3157116		Α	ROD SUPPORT	1	U	JPL	MΑ	R		38	05	51	ل	210300	3157117
D	3157117		Ā	SUPPORT CONT WELDMNT	1	U	JPL	MA	R		38	05	51	J	210200	3157103
D	3157118		Α	FORWARD RING		U	JPL	MA	R		38	05 1	51 !	ك	210400	3157117
c	3157119		T	SPIDER TANK NITROGEN	T	ΙU	JPL	MA	R		38		501	ز	215300	4700332
٥	3157132		A	STRUT CONT SUPPORT		lυ	JPL	MA	R		38	06	61	J	210600	4700310
	3157133		†	STRUT WELDMENT	T	ÌŪ	JPL	MA	R.		38	05	51	J	210700	3157132
	3157134		1	TONGUE BLANK	1	Ü	JPL	MA	R		38	105 1	51	J	210800	3157133
Ç	3157135		T	CLEVIS BLANK	Π	U	JPL	MA	R		38	05	51		210900	3157133
в	3157136			TUBE		U	JPL	MA	R		38	05	51	j	211000	3157133
	3157137		<b>†</b>	ANGLE RING		U	JPL	MA	R		38	05	51	J	210500	3157117
В	3157138		A	PIN CLEVIS	ı	Įυ	JPL	MA	Ř		38	36	61	J	211100	4700310
7	3157508		t	PLUG	†	ΙŪ	JPL	MA	R		38	11	61	J	220000	4700338
C	3157522		Α	RING LOCK	ı	U	JPL	MA	К		38	091	61	ن	218200	4700320
В	3157523		T	GASKET	1	U	JPL	MA	К		38	09	60	J	206900	4700305
ر	3157526		A	BLADDER	<u> </u>	lυ	JPL	<b>IMA</b>	R		38	04	61	J	218400	4700319
C	3157539		В	GAUGE VISUAL	Т	ΙŪ	JPL	MA	R		38	11	50 i	.j	215800	4700335
C	3157540		Α	GAUGE VISUAL PRESSUR	ı	lu	JPL	MA	R		28	lag i	60 l	ن ن	217600	4700321
٥	3157543		В	BODY	Γ	U	JPL	MA	R	İ	38	10	61 i	J	216400	4700333
J	3157544		A	BODY		Įυ.	JPL	MA	н		38	10 1	611	i	220100	4700338
O.	3157546		0	REGULATOR PNEV PRESS	T	U	JPL	MA	H		38	01;	62		215900	4700335
c	3157547		Α	GAUGE VISUAL PRESS	1	U	JPL	MA	R		36	09	60	ز	212200	4700326
C	3157548		Α	XDUCER PRESSURE	Т	U	JPL	MA	R		38	0/1		J	216000	4700335
c	3157549		Ь	TRANSDUCER PRESSURE		Įų.	JPL	MA	В		38	lazi.	61		217400	4700321
c	3157550		1	PLATE BACKUP	Τ	U	JOL	MA	R		38	07	61	J	212300	4700326
٥	3157552		A	CAP VALVE		نا	JPL	MA	B		38	12	6 <u>0</u>		213600	4700322
D	3157553		Т	CAP FILL	Г	Īυ	JPL	MA	R		38	09	60	J	213700	4700322
lc	3157554		ļ	SLEEVE FITTING	1.	lυ	JPL	MA	н		36	logi	60		212700	4700307
Ċ	3157558		Α	DIAPHRAGM BURST	П	U	JPL	MA	R		38	07	61	J.	212400	4700326
l c	3157560			TUBE	ł	lv	JPL	MA	Ř		38	09.1	60	لو	213800	4700322
5	3157562		A	FITTING	Τ	U	JPL	MA	R	i	38	0.9	60	J	217100	4700334
В	3157563	1	1	GASKET	L	Įυ	JPĻ	MA	R		38	09	60	ال ــــــــــــــــــــــــــــــــــــ		3157565
В	3157563		1	GASKET	Γ	U	JPL	MA	R		38	09	60	J	217300	3157565
В	3157563	1	1	GASKET	1	Įυ	JPL	MA	_R		38	ا بان	60		219100	3157565
C	3157564			CAP		Īυ	JPL	MA	R		38	69	60	J	214100	3157565
C	3157564	L	L	CAP	1	lu	ÌJPL	MA	R		138	09	60	J	217400	
* D	ENOTES CHANGE T	O PREV	005	LIST												JPL 0513 JUNE 6

### JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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Ĭ	DRAWING NO.	 15	TITLE	1	3	VE #001		BAJOR ITEM	3 CLP.		7 E	CONTROL		NEXT ASSEMBLY
_	2257544	 	CAR	۲	U	JPL	MA		38	0.9	60	STATUS	219200	3157565
	3157564	1	CAP CAP NEEDLE ASSY	ı	lő.	JPL	MA		38	09	60	,		4700318
	3157565	 -	CAP NEEDLE ASSY	+	ŭ	JPL	MA		38		6n	<del></del> _		4700322
	3157565		CAP NEEDLE ASSY	1	Ĭŭ	JPL	MA		38	1 "	60	,		4700334
	3157572	 $\vdash$	BAFFLE	1	ŭ	JPL	MA		38	07	61			4700318
	3157574	A	RING FILTER BACKUP	1	5	JPL	MA		38	0.7	61	j		4700335
_	3157810	 ^	RING SERVO MOUNT	H	ŭ	JPL.	MA		38	109	60	<del>_</del>		4700343
			INSULATOR SHEET		Ĭŭ	JPL	MA		38	1 * .	61	,		4700343
	3157811	 B	SERVO SHEET	+-	U	JPL	MA	-	38	+-	60			4700213
	3157813	<b> </b> ^	SCREW SET		10	JPL	MA		38	09		,		4700213
_		 -	SHIELD THERMAL	+	Ĭŭ	JPL	MA		38	0.6		<del>_</del>		4700301
	3157816	١. ا	SUBCHASSIS MACHINED	ļ	12	LIPL	1	R	35		61	_		4600327
	3158416	 A.	SUBCHASSIS MACHINED	╁╌	u	JPL	MA		35		61	<del></del>		4600328
	3158416	A	CLAMP		lu.	JPL	MA		34		61	,		4200033
	3158594	 -	HOLDER MAGNETIC CORE	┿	ಗ್ರ	JPL	MA		34		62	<del>_</del>		4200501
	3158596	{ ~		ı	ľů	JPL	MA	- 1	34			,		4200502
	3158596	 C	HOLDER MAGNETIC CORE	╁	ŭ	JPL			34		162	<del>y</del>		4200512
	3158596		HOLDER MAGNETIC CORE	ı	Ľ	JPL	MA		34			3		4200522
	3158596	 C	HOLDER MAGNETIC CORE	+-	Τŭ	JPL	MA		34		62	J		4200538
•			CABLE RETAINING BRKT	ı	1.	JPL	MA		35	04				4800296
	3158874	 8	CABLE RETAINING BRKT	+-	ΙÜ	JPL	MA		35		4			4900501
		В		ı	1	JPL	MA		34	1 -	62	,		420051
_	3158918	 A	BRACKET CRYS MOUNT	1.	10	JPL	MA		34	-	62	العداد . ار		4200511
3	3158919	1	CRYSTAL STRAP RELAY CC&S	1	ľú	JPL	MA	i	34	1	61			420057
-		 +-	STRAP RELAY	+	ΙŬ	JPL	MA		34	-				4200523
3	3158938	A			1 -	JPL	MA	- 1	34	0.0	102	,		4200503
	3158989	 A	STRAP RELAY XPONDER CAVITIES 2A3	+-	U	JPL	MA		- 135	111	61			490050
	3172189	١.		ı	1 -	JPL	MA		35	1 -	2 - 1	<i></i>		4600008
-	3172190	 ļA.	BRACKET	1	14		MA		35		61			3172189
ŀ	3172209	L	CABLE DETAILS	*	U	JPL	MA		34		62	,		4100525
-	3172585		SENSOR SUN	*	+*	JPL	MA		34		102			420067
3	3172586	B	CELL B E H&K CELLS	1,	10	JPL	MA		34		62	J		3172584
	3172586		CELL B E HEK CELLS	+-	+-	JPL	MA		34					3172584
3	3172587		CELL I CELL ASSEMBLY	"	1 -	JPL	MA	1	34		62	,		42006"
3	3172588		CELL-FLAT D CELL	-+-	-+	JPL	MA		34		62			317258
3	3172589		CELL J CELL ASSEMBLY		1 ~	1	MA		34		62	J		420067
3	3172590		CELL C CELL ASSEMBLY	۲	10	JPL	MA		38		61			470033
3	3177120	<b> ^</b>		1	10	JPL	MA				61	,		410030
3	4100049	 +	PIN LOCATING	+.	12		+		35		-			
В	4100143	A	GUSSET SUPP STRUCTOR		1 ~	JPL	MA	R	35		63	٠	023800	4100151
3	141001431	 JA.	GUSSET SUPP STRUCTUR	<u>ٿ</u> ــــــــــــــــــــــــــــــــــــ	10	135	JUB	17.1		444			1 .UCH CUU	JPL 0513

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DI	RAWING	LI	S T						•						• 1	- 11 05	
T-	DRAWING NO.	9A1H	1.2		L	1:	*****			15 704	2132		1416	DRAWING		NEKT	
1 3	DRAWING NO.	NO.	15	1	5	į	6001	***		THEU SEP.	Arr.	¥0.	71	CONTROL STATUS			9
D	4100148		Α	DOUBLER SUPPT STRUCT	*	Ū	JPL	MA			35	12	62	J	023600	4100336	٦
Ç	4100149	L_	A	STIFFENER SUPP STRUT	*	Ų	JPL	MA	R		35	01	63	J	025200	4100335	
В	4100150		ĺ	DOUBLER	ı	U	JPL	MA			35	05	61	J	022800	4100321	
10	4100151			CHANL WELDMENT SUPPT	<u>*</u>	U	JPL	MA	R		35	12	62	J	023700	4100336	
D	4100152		В	CHANL WELDMENT SUPPT	*	U	JPL	MA	R		35	12	62	J	024100	4100336	٦
D	4100153		A	CHANL SUPPT STRUCT	*	U	JPL	MA	R		35	12	62	j		4100151	
D	4100153		I A	CHANL SUPPT STRUCT	*	U	JPL	MA	R		35	12	62	J		4100152	
12	4100154		Α	RING	L	U	JPL	MA	R		35		61	J		4100336	_
Ç	4100155		A	BRACE PIVOT ARM	*	U	JPL	MA	R		35		63	J		4100336	
C	4100157		ļ <u>A</u>	ARM PIVOT	*	Ų	JPL	MA	R		35	×	63	<u> </u>		4100335	_
В	4100159		A	REFLECTOR HI GAIN	*	U	JPL	MA	R		35	12	62	J		4100321	
_	4100190		A	DOUBLER SPT STRUCT	ļ	V.	JPL	MA	R		35	06	61	J		4100151	_
В	4100190		1.	DOUBLER SPT STRUCT	İ	U	JPL	MA	R		35	06	61	J.		4100152	
B	4100190		A	DOUBLER	-	Ų	JPL.	MA	R			06		J		4100330	_
6	4100191		IA.	DOUBLER RING FLANGE	*	U	JPL	MA				01	63	J		4100154	
	4100194		A	RING FLANGE INNER	*	U	JPL		R		35		62	J		4100336	_
C			A	STRIP INNER ANTENNA	*	U	JPL	MA	R	- 1			63	J		4100321	
B	4100196		A	DOUBLER RING FLANGE	*	U	JPL	MA				01		J		4100336	-
C	4100198		A	STRIP OUTER SUPPORT	*	U	JPL	MA			35		62	ا ب ا		4100321	1
_	4100199		ļĄ.	STRIP RADIAL ANTENNA	*	U	JPL		R		35		63			4100321	4
17	4100200		A	LOUVER INSTALLATION	١.	U	JPL	MA			35	09		ا		4900501	1
10	4100201			HOUSING ASSEMBLY	*	U	JPL	MA			35	12	62			4100223	-
6	4100202			HOUSING ASSEMBLY	*	U	JPL	MA			35			J.		4100223	
늄	4100204			PLATE LOUVER END	*	ν.	JPL	MA			35		63			4100223	-
15	4100204		В	ACTUATOR ASSY LOUVER	*	U	JPL	MA		l		01		ا ب		4100416	
B	4100209		15	STOP	Ě	U	JPL	MA			35	01		J		4100419	-
В	4100209			STOP		U	JPL	MA	R		35			',		4100201	-
눔	4100210		В	LOUVER ASSEMBLY COMP	*	U	JPL	MA	R		35		61 63		031000	4100202	-
5	4100210			LOUVER ASSEMBLY	*	Ü	JPL	MA	Ŕ	i	35		63	J		4100419	ı
В	4100212		Ā	SHAFT	Ë	Ü	JPL	MA	R			09		<u> </u>		4100210	- 1
13	4100212		Â	SHAFT		Ü	JPL	MA	R	Į		09	61	ĭ		4100210	-
B	4100213			HOUSING TRUST BEARNS	*	U	JPL	MA	R	<del></del>		01		<del>-y</del>	031400		۱
ľč	4100214			BEARING ASSEMBLY	*	Ü	JPL	MA	R		35	01	63	ĭ	031400		١
15	4100214			BEARING ASSEMBLY	*	ŭ	JPL	MA	R			_	63	J	184300		٠.
B	4100215			SHAFT	*	ŭ		MA	R	}		01	63	J	031510		-
В	4100215			SHAFT	*	Ü	JPL	MA	R				63	- J	184400		-
В	4100216		A	RETAINER SELF-LOCK	*	lu l	JPL	MA	R		35	01	63	اد	184500		-
8	4100216			RETAINER SELF-LOCK	*	Ü		MA	R		_	01	63	J		4100214	-
В	4100217		A	WASHER	*	ŭ l	JPL	MA	R	1	35	01	63	J		4100214	-
_	NOTES CHANGE TO	PREVI														JPL 0513 JUNE 6	۰
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_	AWING			CALIFORNIA IN: MARINER I							-	LALIF.		PAGE	20	4-11-6	3
K	DRAWING NO.	E 1	31	TITLE		1	7 E M 800		ELEA	17 FOR	1617.	167	EASE ITE	DRAWING CONTROL		NEXT	T
	DRAWING NO.	20.	152		3	ર	6001	\$1 211		7HEG 888.	pty.	mo.	10.	STATUS		ASSEMBLY	4
١	4100217	ĺ	A	WASHER	*	U	JPL		R		35		63	J	184600	4100214	
+	4100218		Α	BEARING	*	V.	JPL		R			01	63	<u> </u>	031525	4100214	
- 1	4100218		A	BEARING	*	U	JPL	,	R	Ĭ		07	61	J	184700	4100214	
-+	4100219		IA.	PAD	*	Ų	JPL		R				63	J	031530		_
	4100219		Α	PAD	*	U	JPL		R		35	01	63	J	184800	4100214	
	4100220		A	LOUVER ASSY	L.	Ų.	JPL		R				61	ر		4100416	
- 1	4100221	i	A	LOUVER ASSY		U	JPL		R			09	61	J	184900	4100220	
_	4100222		A	HOUSING	L	U.	JPL		R			09	61			4100220	
	4100223		В	RACK INSTALLATION	*	U	JPL		R		35	01	63	J	200500	4900502	
	4100225		IA.	HOUSING ASSY	1	ĮΨ	JPL		R		35	۵9_	61		200800		_
	4100225		A	HOUSING ASSEMBLY		U	JPL		R			•	61	J	201100	4100202	
	4100228		ĮA.	ACTUATOR SPIRAL COIL	*	U.	JPL		R		35	01	63		183900		_
	4100228		ļΑ	ACTUATOR SPIRAL COIL	l	U	JPL		R		35	01	63	J	030900	4100204	
	4100229		┺	TEE	*	V	JPL		R		35	06	61	J		4100336	_
ı	4100303		i	HEX STRUCTURE ASSY	*	U	JPL		R		35		62	J	011500	4100304	
j	4100304		A	STRUCTURE ASSEMBLY	*	U	JPL		R		35	11	62	J	011100	4100310	
1	4100306	-1		SOL PAN PLUS X 4A11	*	U	JPL		R		35		62	J	000400	4100309	
	4100306	-2	<u>Jc</u>	SOLAR PANEL - X 4A12	*	U	JPL		R		35	11	62	J	007100	4100309	_
П	4100309		Т	SPACECRAFT ASSEMBLY	*	U	JPL	MA	R		35	08	62	J	000100		
Ц	4100310		IA.	EQUIPMENT ASSEMBLY.	*	ļu.	JPL		R		35	11	62			4100309	
1	4100311	Ì	A	RING MOUNTING	*	U	JPL	MA	R [		31	01	63	J	018900	4800257	
_	4100312		1	LINK ASSY SOLAR PAN		ĮŲ.	JPL	MA	R		35	11	61	J	019300	4100315	_
П	4100313	1	Т	END SOL PAN LINK		υ	JPL	MA	R		35	11	61	J	015500	4100304	
1	4100314		1_	SUPPORT SOL PAN LINK		U	JPL	MA	R		35	11	61	J.		4100315	
┨	4100315		A	LINK SOLAR PANEL SPT		U	JPL	MA	R		35	03	62	J	019100	4100310	
1	4100316		1.	SPACER SOL PAN LINK	L	υ	JPL	MA	R		35	11	61	J	015600	4100304	_
7	4100316		T	SPACER SOL PAN LINK		U	JPL	MA	R		35	11	61	J	019500	4100315	
	4100317		A	TUBE SUPERSTRUCTURE	*	U	JPL	MA	R		31	01	63	J	015900	4100340	
7	4100317		A	TUBE SUPERSTRUCTURE	*	Ū	JPL	MA	R		31	01	63	J	016300	4100350	
1	4100317		A	TUBE SUPERSTRUCTURE	*	U	JPL	MA	R		31	01	63	J.	017100	4100360.	
Ī	4100318		Α	PLATE STA 438.281	*	U	JPL	MA	R		35	11	62	J	018715	4100518	
J	4100320		В	ANTENNA 4FT ASSY	*	U	JPL	MA	R		35	12	62	J	021700	4100400	
1	4100321		A	REFLECT HI GAIN ANTT	*	U	JPL	MA	R		35	12	62	J	022700	4100320	
1	4100322			FEED ANT 4FT PARABOL	L_	U	JPL	MA	R		35	01	62	J	025800	4100320	
	4100323		Α	OUTER CONDUCTOR ASSY	*	U	JPL	MA	R		35	01	63	,	026000	4100322	ĺ
1	4100324		В	INNER CONDUCTOR ASSY	¦ *	Ų	JPL	MA	R		35	01	63	J	026900	4100322	
1	4100325		A	CONDUCTOR INNER ANTE	*	U	JPL	MA	R		35	01	63	J	027200	4100324	
- 1	4100326		A	BLOCK SHORTING DIPOL	*	U	JPL	MA	R		35	01	63	J	027300	4100324	,
	4100327		A	CONDUCTOR OUTER ANT	*	IJ	JPL	MA	R		35	01	63	J	026200	4100323	,
	4100328		A	FEED DIPOLE ELEMENT	*	lũ.	JPL	MA	R	1	35		63		026300	4100323	

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TITLE	# 5	1	48 400 E	MAJOR FILM MAJOR FILM SERIAL THRU SEE	PECS LATE	URAWING CONTROL STATUS		NEXT 2	П
EVE FEED ELEMENT	*	U	JPL JPL	MA R	35 01 63	ل ار	026400	4100323	

				CALIFORNIA INS	TIT	OIE	OF IEC	HNOLOGY, PASA	DENA,	CALIF.				
R	AWING	L I	s T	MARINER F	? /	62	FLI	SHT NUMERI	CAL		PAGE	21	4-11-6	3
32	DRAWING NO	****		TITLE	<b>3</b>	1	*****	WELEASE FEE	Part	71.18°1	URAWING CONTROL		NEXT	Ţ
- 1		<b>#</b> 0.	Ŀ.		3	-	ccel	STRAL THEOSE			STATUS		ASSEMBLY	1
3	4100329		A	SLEEVE FEED ELEMENT	*	U	JPL	MA R	35	01 63	ل		4100323	
) :	4100330		Б	SUPPORT PIVOT ARM	*	U	JPL	MA R	35	12 62			4100321	
0	4100331		1	LONGERON ASSY ANT		U	JPL	MA R	35	01 62	ل		4100320	
3	4100332		Α	LONGERON HI GAIN ANT	*	U	JPL	MA R		01 63	U		4100331	
æ	4100333		Α	STUD SLOTTED ANT	*	U	JPL	MA R	35	01 63	J		4100331	
D	4100334		Α	HUB SUPPT STRUCT ANT	*	U	JPL	MA K	35	12 62	J		4100335	
J	4100335		Г	HUB ASSY HI GAIN ANT	1	U	JPL	MA R	35	01 62	J	025100	4100336	
J	4100336		A	SUPPT STRUCT ASSY	*	U	JPL	MA R	35	12 62	J		4100321	
В	4100337		Α	SCREW SHORTING BLOCK	*	U	JPL	MA R	35	01 63	ئ		4100322	
C	4100338		A	INSULAT PIVOT ARM	*	U	JPL	MA R	35	01 63	نــ	025500	4100335	
В	4100339		Α	INSULAT SLEEVE ANTEN	*	U	JPL	MA R	35	01 63	J	025600	4100335	
j	4100340		A	TRUSS SECTION 3 ASSY	*	U	JPL	MA R	31	0:63		015800	4100304	
ζ,	4100341		В	FITTING TRUSS SECT 3	*	U	JPL	MA K	31	01 63	J	016000	4100340	
0	4100342		Α	FITTING TRUSS SEC 3	*	U	JPL	MA R	31	01 63	ز	016100	4100340	
J	4100345		A	YOKE EARTH SENS ANTE	*	U	JPL	MA R	35	10 62	J	028300	4100400	
Ċ	4100346		Α	DRIVE OUTPUT YOKE	ı	lυ	JPL	MA R	35	04 62	ني	019600	4100310	
5	4100347		fig.	GEAR ASSY	1	tu	JPL	MA R	3.5	04 62			4100346	
D	4100348		Ā	RING MIG	1	ΙŪ	JPL	MA R	35	01 62	Ü		4100346	
8	4100349		Ë	CAP	1	tů	JPL	MA R	35	11 61	<u>-</u>		4100346	-
1	4100350			TRUSS SECTION 1 ASSY	1	Ĭŭ.	JPL	MA R	35	03 62	Ĵ		4100304	
Ţ	4100351		A	FITTING TRUSS SEC 1	*	ΙŪ	JPL	MA R	31	01 63	J		4100350	
5	4100352		A	FITTING TRUSS SEC 1	۱.	li.	JPL	MA R	131	01 63	,		4100350	
5	4100353		A	FITTING TRUSS SEC 1	*	Ü	JPL	MA R	31	01 63			4100350	
	4100354		IÂ.	BRKT INFRA RED RADIM		ľ	JPL	MA R	31	01 63	Ī		4100350	
÷	4100355		1	GUSSET TRUSS SEC 1	*	+	JPL	MA R	131	01 63	Ÿ		4100350	
b	4100356		1	FITTING TRUSS ASSY	]	ŭ	JPI	MA R	35	12 61	ı		4100350	
D	4100358		Ā	FITTING TRUSS SEC 2	-	ť.	JPI	MA R	31	01 63			4100360	
D	4100359		A	FITTING TRUSS LOWER	*	Ĭ.	JPL	MA R	31	01 63	1		4100360	
<u>-</u>	4100360		TA	TRUSS SECTION 2 ASSY	*	+ -	JPL	MA R	31	01 63	، برای میان در است. می	017000	4100304	
J'	4100361		1	INSERT THERM SHIELD	l^	U	JPL	MA R	35				4100365	
	4100361		4	SHIELD LOUVER HOUSE	+	H	JPL	MA R	35		<u> </u>	020300	4100363	
						10	JPL	MA K	35		3	020500		
	4100362		A.	SHIELD LOUVER HOUSE	+-	냽	JUPL	MA R	35		ـــــــــــــــــــــــــــــــــــــ		4100310	
	4100363		A	SHIELD LOUVER INSTL		ľ	JPL	MA R	135	09 62	,		4100310	
	4100364		4		+-									
-	4100365		Α	SHIELD THERMAL ASSY	1	U	JPL	MA R	35	09 (62)	J	017800	4100304	
8	4100366		4.	INSERT THERM SHIELD	╀	U	JPL	MA R		+ + <del>-</del>			4100365	
В	4100367			INSERT RADIOMIR SPT	1	I.	1	1	35	1 1 1	~			
	4100368	L	<b>.</b>	INSERT THERM SHIELD	+-	U	JPL	MAR	. 35	11 61		018000		
Α	4100369		1	INSERT THERM SHIELD PLATE ASSY SUPERSTRU	ı	U	JPL	MA R	35	01 63	J	018100	4100365	
J	4100370		18											

#### JET PROPULSION LABORATORY DATE LISTED CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARINER R 62 FLIGHT NUMERICAL PAGE 22 4-11-63

	DRAWING NO.	9459	15	TITLE	ŧ	1	VE ****	· '	MAJOR	SE FOR	***			CONTROL	1	NEXT ASSEMBLY
:	DRAWING NO.	₽0.	5.2		5	1 5	6054	600		1994 361.	D.Y.			STATUS		
	4100371		А	JOINT PLATE SUPERSTR	*	U	JPL	MA	- 1		31	1 -	63	J		4100370
	4100372		Α	JOINT PLATE SUPERSTR	*	U	JPL	MA			31	10.2	63	J		4100370
	4100373		i	INSERT		U		MA			35	11	61	j		4100365
_	4100374		Α	BOLT EYE SOL PANEL	<u> </u>	U	_	MA	К		35		62	<u></u>	020900	4100375
	4100375		1	UPPER SOL PAN LATCH	t	U	JPL		R		35	0.3	62	ن		4100310
:	4100376			LINK LATCH SOLAR PAN	L	U	JPL	MA			35	11	61	J		4100375
,	4100377			BRACKET PIN PULLER	l	U	JPL	MA	R	ĺ		11	61	J		4100375
. !	4100378		A	PLATE LATCH SOL PAN		U	JPL	MA	R		35	03	62			4100306
	4100379		T	CLEVIS SOL PAN LATCH		U	JPL	MA	R		35	11	61	J		4100304
	4100380		10	SUPPORT A&D SC MACH	*	ĮŲ.	JPL.	MA	R		35.		63	ــــــلاــــــــــــــــــــــــــــــ		ف410030
П	4100381		Α	SUPPORT BGE SC MACH		U	JPL	MA	8		35	03	62	J		4100303
	4100382		10	SUPPORT A SC MACHING	*	U	JPL	MA	R		35.	01	63	<u>.</u>		4100303
Г	4100383		A	SUPPORT C SC MACHING		U	JPL	MA	R		35	03	62	j		4100384
Į	4100384		1	SUPPORT ANT PIVOT		U	JPL	MA	R		35	111	61	J	012900	4100203
_	4100386		A	FITTING	*	U	JPL	MA	R		35	12	62	j		4100303
	4100387		A	TUBE	*	U	JPL	MA	R		35	12	62	<u>J</u>		4100303
	4100388		Α	STIFFENER DIAGONAL	*	U	JPL	MA	R	i	35	12	62	J		4100303
	4100389		Α	BRKT ARMING SWITCH	*	U	JPL	MA	R		35	1:2	62	. J	013800	
)	4100390		A	BACKTIE	*	U	JPL	MA	К.		35	12	62	J	013900	4100303
3	4100391		A	TUBE STRUCT K BRACE	*	lυ	JPL	MA	R		35	12	62		014000	4100303
)	4100392		IA	BRACKET K BRACE RH	*	U	JPL	MA	R		35	12	62	-	014200	4100303
)	4100393		A	BRACKET K BRACE LH	*	ΙŪ	JPL	MA	R		35	12	62.	لا ا	014300	4100303
3	4100394		A	END FITTING STRUCT K	*	Ū	JPL	MA	R		35	112	62	J	014100	
	4100395		A	FITTING TUBE	*	U	JPL	MA	R	L	35	12	162		014400	4100303
	4100396		IA	BRACKET REF PLATE	*	Ū	JPL	MA	R		35	12	62	ال	014500	4100303
	4100397		A	BRKT ARMING SWITCH	*	U	JPL	MA	₽	Į	35	14	62		014600	4100303
1	4100399		A	ADAPTER SUN GATE	*	U	JPL	MA	4	1	35	112	62	ز ا		4100303
ì	4100400		A	YOKE ANTENNA INSTALL	*	Ιυ	JPL	MA	ä	1	35	11	62	J	021500	4100310
5	4100401		†	POST ASSY ROT COAX		Τū	JPL	MA	·R	1	35	04	62	J	028400	4100400
ì	4100402			BEARING YOKE		U	JPL	MA	К		35	04	62	J	028600	14100400
3	4100403		+	WASHER	Т	Ū	JPL	MA	К		35	104	52	J	020100	4100346
4	4100404	ĺ		WASHER	1	Ιú	JPL	MA	R		35	0.4	152	<u> </u>	019800	410034
j	4100406		1.	SHIELD BAY B TO C	Ť	Tu	JPL	MA	R		35	0 ?	162	J	204100	4100410
3	4100407	1		SHIELD LOWER	1	ΙŪ	JPL	MA	R		35	0.7	62	J	204200	4100410
5	4100408			SHIELD BAY E TO F	1	ΙÜ	JPL	MA	ĸ	i	,35	107	:62	i J	204500	4100410
5	4100409		1	SHIELD BAY A TO B	1	ΙŪ	JPL	MA	R		35	07	62	J	204600	4100410
<del>-</del>	4100410	-	†"	SHIELD THERMAL INSTL	1	Ū	JPL	MA	R	1	35		162	<u> </u>	203900	4100309
)	4100411		1	SHIELD LWR THERMAL		lu	JPL	MA	R		35				204300	410040
5	4100412	<del>                                     </del>	$^{+}$	SHIELD BAY C TO D	1	Ιŭ	+	MA			35			Ĵ		4100410
D	4100413	1	1	SHIELD BAY D TO E	1	Ĭŭ	) -	MA		1	35		62	l j		4100410

\* DENOTES CHANGE TO PREVIOUS LIST

				JET PR	01	U	LSIO	N	LAI	BORAT	r o r	Y				
				CALIFORNIA IN								CALIF.				DATE L'STED
D F	RAWING	LI	<b>S</b> 1	, MARINER	к	62	FLI	GHT	ΝL	JMERIC	AL			PAGE	23	4-11-63
Ī	DRAWING NO.	DAEB DO.	1 :	TITLE	1	3	4444B	31	<b>4440</b>	100 1784 1484 852	ITSP.	#0.	(AS I (7 E 3 P.	DRAWING CONTROL STATUS		NEXT ASSEMBLY
D	4100414		Т	SHIELD BAY F TO A	Т	U	JPL	MA			35	07	62	J	205000	4100410
౼	4100416	<u> </u>	Ļ.	LOUVER INSTL	1	ļυ	JPL	MA			35	11	61	J		4800296
В	4100418		IA.	MIRROR LOUVER ASSY	*	U	JPL	MA			35	01	63	J		4100419
<u>C</u>	4100419	-	A	LOUVER INSTALLATION MIRROR ASSEMBLY	*	<del>+×</del>	JPL	MA			35		63	J		4100310
В	4100420		1	WASHER LONG RANGE		U	JPL	IMA MA	R		35 35	04	62 62	J J		4100400
ō	4100422		<b>T</b>	SHADE EARTH SENSOR	+	ü	JPI	MA	R		35		62	<del></del>		4100400
D	4100423		1	BOX BAFFLE ASSEMBLY	1	Ιŭ	JPL	MA	R		35		62	j		4100422
7	4100424		t	SHADE DIRECT SUN	1-	ΙŬ	JPL	MA	Ŕ		35		62	J		4100422
C	4100425			BAFFLE SET SHADE	1	U	JPL	MA	R		35		62	J.		4100422
В	4100426		T	STUD LONG RANGE	1	Ü	JPL	MA	R		35	04	62	J		4100400
٥	4100427			SHADE FIXED EARTH		U	JPL	MA	R		35	06	62	J		4100310
В	4100429		Α	MIRROR	*	U	JPL	MA	R		35	01	63	J	031700	4100418
C	4100430		L	BRACKET SENSOR		Ų	JPL	MA	R		35		62	J		4100525
B	4100431	i	ĺ	SADDLE PART FLUX DET		U	JPL	MA	Э		35		62	J		4100370
B	4100432		L	SPACER PRIMARY	L	U	JPL	MA	R		35	-	62	J		4100310
_	4100434		L	SPACER COAX HOUSING RETAINER LATCH	1	Ü	JPL	MA	3.20		35		62	J		4100400
	4100435		A	GROUND PLANE ASSY	*	U	JPL	MA	R		35		62	J		4100375
	4100437		Â	HUB GROUND PLANE ANT		lu.	JPL	MA	R	-	35 35	!	63	j J		4100323
_	4100438		Ā	INSULATOR HI GAIN	*	ŭ	JPL	MA	_		35		63	<u>J</u>		4100436
	4100439		``	DOUBLER PIVOT ARM		li.	JPL	MA				01	62	Ĵ		4100336
В	4100440		Α	TRANSFORMER COAXIAL	*	ľŰ	JPL	MA			35	_	63	J		4100324
В	4100441			ACTUATOR SWITCH		Ū	JPL	MA	R				62	J		4100306
В	4100441			ACTUATOR SWITCH		υ	JPL	MA	R		35	03	62	J		4100306
-	4100442		L	CLIP MOUNTING MICRO	<u> </u>	U.	JPL	MA	R		35	03	62		205100	4100309
C	4100443			STRUCTURE PIVOT ARM	*	U	JPL	MA	R		35	05	62	J	032100	4100310
В	4100444			TUBE PIVOT ARM SUPP	ļ_	U	JPL	MA	R		34	05	62	J	032400	4100443
Ž	4100445		١. ا	ION CHAMBER PARTICLE		Ų	JPL	MA	R				62	J		4100310
B	4100446			BRACKET TRUSS SHADE SUN PARTICLE	*	U	JPL	MA	R				63			4100360
c	4100448		^	GUIDE CABLE WELDMENT	*	U	JPL JPL	MA	R			~ :	62	J.		4100445
5	4100449		A	SUPPECABLE CLAMP ASY	╌	tö i	JPL	MA	R				62	Ų.		4100306
č	4100450			CLAMP CABLE ASSY	l	i.	JPL	MA	R	ļ		- 1	62	ا		4100495
-	4100451		П	BEARING SOL PANEL	t-	ŭ	JPL	MA	R		$\overline{}$		62 1	_ <u></u>		4100493
Ū	4100454			RADIOMETER GUARD INS	*	υ	JPL		R	- 1			62	J		4100309
J	4100455			BLANKET THERMAL INST	*	U	JPL	MA	R				62	J		4100310
	4100456			BLANKET THERMAL ASSY	*	Ų.	JPL	MA	R		35		62	i		4100455
C	4100457			SUPPORT ANTENNA		U	JPL	MA	R		35	03	62	J		4100462
	4100458		Ш	SHAFT ASSEMBLY ANT	L_	u l	JPL	MA	R		35	لتم	62			4100462
_	NOTES CHANGE TO	PREVIO	ous i			IU !	JPL	MA.	<u> K.</u> 1		351	ונס	62		0299001	JPL 0513 JU

RAWING	LI	S T	, MARINER F	₹ (	52	FLI	5HT			AL			PAGE	24	4-11-6
DRAWING NO.	816# 80.	11	TITLE	1	9833	C:01	64	BAJO:	51 FC4 17EN THEU SEP.	DESP. PIV.		145 E 1 E	DRAWING CONTROL STATUS		NEXT ASSEMBLY
4100459		П	TUBE ANTENNA DAMPER		U	JPL	MA			35	03	62	<u> </u>	030000	4100462
4100460		L.	BUSHING ANT DAMPER	_	υ	JPL	MA			35	03	62	J	030100	4100462
4100461		i I	BOOT ANTENNA DAMPER	Ì	U	JPL	MA			35		62	J		4100462
4100462			ANT DAMPER INSTALL		U	JPL	MA				03	62	J	029600	4100400
4100463		i I	SPRING COMPRESSION	i	U	JPL	MA	R		35	07	62	J	038000	4100465
4100464			INSTALLATION STABLIZ	<u> </u>	Ų	JPL	MA			35	07	62	J		4100310
4100465		i	STABILIZER ASSY VERT	İ	U	JPL	MA	R		35	07	62	J	037900	4100464
4100466		1	SOCKET VERT STAB	<u> </u>	Ų	JPL	MA			35	07	62	J		4100464
4100467			PIN-VERTICAL STABLIZ	Ţ	Ü	JPL	MA	R			07	62	J	038100	4100465
4100468		<u> </u>	FITTING VERTICAL	L	U	JPL	MA	R		35	0.7	62	الو	038200	4100465
4100469		Ĺ	RETAINER VERTICAL	l	U	JPL	MA	R		35	07	62	J	038300	4100465
4100470			INNER TUBE VERTICAL		Ų	JPL	MA	R		35	0.7	62	J	038400	4100465
4100471			OUTER TUBE VERTICAL	П	U	JPL	MA	R		35	07	62	J	038500	4100465
4100472		1	BOOT-VERTICAL STABLZ	ļ	υ	JPL	MA	R		35	0.7	62	j	038600	4100465
4100473			ROD VERTICAL STABL		U	JPL	MA	R		35	07	62	J	038700	4100465
4100474		1	SPACER VERTICAL STBL		U	JPL	MA	R		35	07	62	J '	038900	4100464
4100475			STABILIZER ASSY	Г	U	JPL	MA	R		35	07	62	J	039100	4100464
4100476			FITTING HORIZONTAL		U	JPL	MA	R		35	07	62	J	039900	4100484
4100477			ADAPTER HORIZONTAL	-	v	JPL	MA	R		35	07	62	J	039400	4100483
4100478			TUBE SUPPORT HORIZON		υ	JPL	MA	R		35	0.7.	62	J	039500	4100483
4100479			TUBE INNER HORIZONTL		U	JPL	MA	R		35	07	62	J	040000	4100484
4100480		1 1	TUBE OUTER HORIZONTL		υ	JPL	MA	R		35	07	62	J	039600	4100483
4100481			FITTING ATTACHMENT		U	JPL	MA	R		35	07	62	j		4100483
4100483		1	OUTER TUBE ASSEMBLY		U	JPL	MA	R		35	07	62	J	039200	4100475
4100484			INNER TUBE ASSY		U	JPL	MA	R		35	07	62	J	039800	4100475
4100490		1	ROD END ASSY	l	lυl	JPL	MA	R		35	05	62	J	205200	4100309
4100491			HOUSING BEARING		U	JPL	MA	R		35	0.5	621	J	205300	4100490
4100492		ΙI	BUSHING ROD END		u	JPL	MA	R		35 l	05	62	J	205400	4100490
4100493		1-1	INSERT	_	u	JPL	MA	R		35	05	62	J	205500	4100490
4100495		H	SUPPECABLE CLAMP ASY		ŭ	JPL	MA	R		35		62	Ĵ	001100	4100306
4100496		П	SPACER PYROTECHNIC		U	JPL	MA	R				62	J	040100	4100310
4100498			BRACKET DIODE	1	ŭ	JPL	MA	R	1		07	62	j	001400	4100306
4100498		-	BRACKET DIODE		Ŭ	JPL	MA	R				62	Ĵ	007600	4100306
4100501			STRUCTURE MCPU INSTL	*	Ū	JPL	MA	R				62	ل ل		4100304
4100502		-	STRUT MCPU		Ū	JPL	MA	R			0.5	62	Ĵ		4100501
4100503			JOINT MCPU		Ü	JPL	MA	R		34		62	J		4100501
4100504		<u>†</u>	FOOT MCPU		Ū	JPL	MA	R		34		62		015100	4100501
4100516			SET SCREW MODIFIED		Ū	JPL	MA	R			0.5	62	Ĵ	205600	4100490
4100519			SAIL ASSEMBLY PLUS X		U	JPL	MA	R				62		001500	4100306
4100520			BRACKET SUN SENSOR		i i	JPL	MA	R		35	0.7	62		001600	

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DRAWING NO.	140#	4 :	TITLE	4		*****		14514	176#	#L 67.	411	141	GRAWING CONTROL		NEXT ASSEMBLY
DRAWING RO.	<b>&gt;0.</b>			3		COSE	94.0		THEU 514.	BIY.	¥0.	**	STATUS		
4100521			STANDOFF SOL SENSOR		U	JPL	MA			35	07	62	J		4100306
4100524			PLATE LATCH SOL PAN		U	JPL	MA			35		62	<u> </u>		4100306
4100525			SOLAR PANEL EXTENSM	*	Ų	JPL		R				62	J		4100306
4190225		Α	ATT CONT BOTTLES		U	JPL	MA	R		35	04	62	J	015300	4100303
4200002			SUN GATE ASSY		U	JPL	MA	R		35	06	61	J	040200	4100310
4200003			SUPPORT PAOTO CELL	*	U	JPL	MA	R		34	09	62	J		4200002
4200004		A	SHIELD LIGHT # 1	*	U.	JPL	MA	R		34	10	62	J	040400	4200002
4200005		A	SHIELD LIGHT # 2	*	Ü	JPL	MA	R		34		62	J		4200002
4200006		В	TB ASSY		Ü	JPL	MA	R		34	08	62	J	040600	4200002
4200006		8	TB ASSY		υ	JPL	MA	R		34	07		J		4200666
4200025		В	SCHEMATIC		U	JPL	MA	R		34	08	62	J	083400	4200033
4200028			VALVE STEM	*	Ų.	JPL	MA	R		34		61	J	011020	3151960
4200033		D	ACCELEROMETER 7A3	*	U	JPL	MA	R		35	12	62	J	082800	4900501
4200034		в	СВ		U	JPL	MΑ	R		34		62	ر	083700	4200033
4200035		A	ART WORK CB1	Π	U	JPL	MA	R		34	08	62	J	083900	4200034
4200036		A	св		U	JPL	MA	R		34	08	62	ال	084000	4200033
4200037			ART WORK CB2	1	U	JPL	MA	R		34	09	61	J	083600	4200025
4200038		в	SUBCHASSIS	ļ	Ū	JPL	MA	R		34	08	61	ر	084100	4200033
4200042			PLATE RETAINER	Н	Ū	JPL	MA	R		34		61	1		4200002
4200044			SHELL NITROGEN TANK	*	Ιŭ	JPL	MA	R		34	11	62			4200588
4200045			SCHEMATIC DIA	1	ΰ	JPL	MA	R		34	08	61	J		4200048
4200045			SCHEMATIC DIA	1	ŭ	JPL	MA	R		34			Li		4200053
4200046	<del>                                     </del>		TRANSFORMER	┼	ŭ	JPL	MA	R		34	07	61	J		4200053
4200048	l			ı	υ	JPL		R	!	34	09		IJ		4200053
4200049	-	Ā	CB2	✝	ŭ	JPL	MA	R		34		61	J		4200053
4200050			PC TB 1	ı	ŭ	JPL	MA	R		34		62	Ĵ		4200048
4200051	<del>-</del> -		PC TB2	┼~	ŭ	JPL	MA	R		34	02		1-5		4200049
4200052	Ì		SUBCHASSIS ASSY	ı	Ιŭ	JPL	MA	R		34	05		Ĵ		4200053
4200053	<del> </del>		CELEST RELAYS 7A19	一	Ŭ	JPL	MA	R		34		61	J		4900501
4200138		-	HOLDER ASSY MANEUVER	ı	ŭ	JPL	MA	R		34	05		ر ا		4200521
4200168			RELAY STRAP	1	Ü	JPL	MA	R		34		61	J		4200503
4200168	1		RELAY STRAP		انا	JPL	MA	R		34	05.	61	"		4200533
3 4200263		В	XFORMER PWR CONVERTE		U	JPL	MA	R		34		62	J		4200563
4200300	ł		GYRO CONT SUBASY 7A2	*	U	JPL	MA	R		34		62			4900501
4200300		c	SUBCHASSIS GYRO	*	U	JPL	MA			34		62	j		4100300
4200301			CAPACITOR SUBASSY 1	*	ľ	JPL	MA			34		62	J		4200300
4200302	—		CAPACITOR SUBASSY #2	*	u		MA	•—		34		62	† <u>J</u>		4200300
			STANDOFF SPACER #1	*	li.	1	MA		1			62	1 7		4200300
3 4200304	<del> </del>		STANDOFF SPACER #2	*	u	JPL	MA					62	<del></del>		4200300
		C	CB1 ASSY	*	u	JPL	MA	R		34	0.4	62	,		4200300
1 4200306	<u> </u>	١٠.	CBI MOST	1.	ΙV	UPL	LETA	_7	L	124	1117	104	<u> </u>	1 000030	3PL 0513 JUI

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) F	RAWING	LI	s t	MARINER										PAGE	26	4-11-63	3
:	DRAWING NO.	\$450 80.	15	YIYLE	4	CLASS	VI 4800		-	16 FGB 1158 1280 SER.	Brte.		71.	CONTROL STATUS		NEXT ASSEMBLY	1
Ā	4200306	Ρl	c	CB1 GYRO CONTROL	*	U	JPL		R		34	09		J	086032	4200306	T
j	4200307			CB1 PRINTED CIRCUITY	*	ΙŪ	JPL	MA	R		34	09	62	J	086034	4200306	I
J	4200308		D	CB 2 ASSY	*	U	JPL	MA	R		34	10	62	ſ	086036	4200300	Τ
4	4200308	PL	c	CB2 GYRO CONTROL	*	U	JPL	MA	R		34	09	62	j	086038	4200308	ı
	4200309		Ď	CB 2 PRINTED CIRCUTY	*	Ū	JPL	MA	R		34	10	62	ſ	086040	4200308	1
j	4200310		Ь	CB 3 ASSY	*	lυ	JPL	MA	R		34	10	62	j	086042	4200300	١
	4200310	PL	D	CB3 GYRO CONTROL	*	U	JPL	MA	R		34	10	62	J	086044	4200310	1
i	4200311	-	٥	CB 3 PRINTED CIRCUTY	*	lu-	JPL	MA	R		34	10	62	ز	086046	4200310	١
Í	4200312		ō	CB4 ASSY	1	IJ	JPL	MA	R		34	10	62	J		4200300	
	4200312		D	CB4 ASSY	l	ij.	JPL	MA	R		34	10	62	j	086050	4200312	١
Ť	4200325	_	Ċ	SCHEMATIC DIA		U	JPL	MA			34	01		J	087000	4200352	1
Ā	4200348		À	TRANSFORMER	1	lŭ.	JPL	MA	R		35		61	-i		4200053	
	4200350		12	SWITCH AMPL SUBCHASS	1	ŭ	JPL	MA			34		61	J		4200351	
	4200351		В	SW AMPL LOGIC 7A18	ı	lŭ	JPL	MA				02		Ĵ		4900501	
J	4200352		İΒ	CKT BD 1 ASSY SW AMP	1	ŭ	JPL	MA				02		J		4200351	
	4200352	0.	ĺв	CB1 SW AMPLFIR LOGIC	1	Ιŭ	JPL	MA				02		,		4200352	
j	4200353	F L	B	CB1 PC SW AMPLELOGIC	╁	ü	JPL	MA				02		J		4200352	
-	4200354	1	В	CKT BD SW AMPL	1	Ιŭ	JPL	MA				02		j		4200351	1
ì	4200354	-	흄	CB2 SW AMPLFIR LOGIC	╁	U	JPL	MA		-		-	62	<u> </u>		4200354	٦
Ą	4200354	٦٩١	1.	CB2 PC SW AMPLIFIER		10	JPL	MA	R		34		61	, ,		4200354	
7	4200355	├	A	ATT CONTROL GYRO 7A1	+	Ü	JPL	MA				12		<u></u>		4900502	
D			C		*	10	JPL		R	i			61	٦,		4200368	
<u>۲</u> .	4200369	-	IA.	GYRO SUBCHASSIS ASSY	╁	u		MA				07		<u> </u>		4200053	
8	4200370	l	١.	TRANSFORMER INTEGRATING GYRO ASY		U	JPL	MA		İ			61	J J		4200368	
<u>D</u>	4200381	├	<del>!</del>	CONTROL GYRO SCHEM	╁	u	JPL	MA					61	J		4200368	
D	4200393	i	1.			1 -				-			1	٦		4200394	
Ď.	4200393	-	A	CONTROL GYRO SCHEM	-	Ų.	JPL	MA					61	¥		4200368	
ز	4200394	ĺa.	1.	CB1 ATTITUDE CONT	i	U	JPL	MA		1		12	61	ن			
Ą	4200394	IPL.	A	CB1 ATTITUDE CONTROL	╀	U	JPL	MA				12	61	J		4200394	
J	4200395	İ	A	PC	1	U	JPL	MA			34	12	61	٦			
٥	4200396		В	CB2 ATTITUDE CONTROL	+	U	JPL	MA		<del></del>	34		62	<u> </u>		4200368	
J	4200397		В	CB2 PC ATTITUDE CONT	1	U	JPL	MA		1	34	01	62	J		4200396	
В	4200399	<u> </u>	Α	INDUCTOR CONT GYRO	+-	U	JPL	MA			34		61	<u> </u>	202200	4200394	
D	4200405	1	В	CELEST RELAYS & PWR	ł.	U	JPL	MR		l	34		62	J	l .	4900501	
ī	4200408	<u> </u>	G	SCHEMATIC LONG RANGE				MA		ļ	34	0.2	63	<u></u>		4200596	
J	4200408		G	SCHEMATIC LONG RANGE						ĺ	34		63	ب		4200417	
j	4200408		G	SCHEMATIC LONG RANGE	*	U					34		63	ــــــــ لــــــــــــــــــــــــــــ		4200412	
J	4200408		G	SCHEMATIC LONG RANGE				MA		1	34		63	J		4200409	
A	4200409	PL	C			U			R	L	34	11	62	J		4200409	
J	4200409		A	CB4 PRE-AMP & PULSE	*	U			R		34		63	J		4200410	
C	4200410	1	A	CB16CB4 SUBASSEMBLY	1	Ìυ	JPL	MA	R	1	134	103	62	l J	047500	4200596	,

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	DRAWING NO.	844H #0.	15	TITLE	45	ST.	TI KBOR	-,,	BELE: WAJO PIAL	THE SER.	#61P. BIV.		TASE STE	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	4200411		١.	CB4 PC PREAMP & PULS		U	JPL	MA			34	01	62	J	048100	4200409
_	4200412		A.	CB1 HIGH VOLTE LOW	*	U	JPL	MA	_ R		34	02	63	J		4200410
- 1		PL	A	CB1 HISLOW VOLTAGE	1	U	JPL	MA		1 1	34	03	62	J	048400	4200412
	4200413		↓	CB1 PC HI VOLT & LOW	L	U	JPL	MA	R		34	01	62	J	048500	4200412
	4200414	۸.	IA.	CB2 ASSY PULSE DEMOD	*	U	JPL	MA	R		34	02	63	Ĵ	048800	4200415
	4200414	۲_	Α	CB2 ASSY PULSE DEMOD	ļ	U	JPL	MA	R		34	01	62	J		4200414
	4200415		Α	CB26CB3 SUBASSEMBLY	l	U	JPL	MA	R		34	03	62	J		4200596
	4200417		<b>L</b>	CB2 PC PULSE DEMOD	L	U	JPL	MA	R		34	01	62	J		4200414
- 1	4200417		A D	CB3 REED DRIVE ELECT	*	U	JPL	MA	R	l i	34	02	63	J		4200415
_	4200417		۳.	CB3 REED DRIVE ELECT	*	U	JPL	MA	R		34		62	J		4200417
-1	4200419		E	CB3 PC REED DRIVE		U	JPL	MA			34	01	62	J	049400	4200417
	4200419		1-	SCHEMATIC DIAGRAM	Ь,	Ü	JPL	MA	R			03	62	J		4200580
1	4200419		1 - 1	SCHEMATIC DIAGRAM		U	JPL	MA	R		35	03	62	J	104200	4200581
	4200419			SCHEMATIC DIAGRAM	L	U	JPL	MA	R			03	62	J	104800	4200582
ı	4200419		Ε	SCHEMATIC DIAGRAM	П	υ	JPL	MA	R			03	62	J	105400	4200618
	4200419			SCHEMATIC DIAGRAM	Ш	U	JPL	MA	R			03		J	106000	4200628
	4200419			SCHEMATIC DIAGRAM		U	JPL	MA	R	i			62	_	106400	4200637
	4200500			SCHEMATIC DIAGRAM	_	U	JPL	MA	R				62	J	106700	4200649
1	4200500		, - 1	SCHEM LAUNCH COUNTER		υ	JPL.	MA	R	- 1		-	62	J	090000	4200502
+	4200500			SCHEM LAUNCH COUNTER	$\Box$	Ų.	JPL	MA	R				62		088900	4200503
	4200501	n.	r – I	CB1 ASSY LAUNCH CHTR		U	JPL	MA	R				62	J		4200503
	4200502	<u> </u>		CB1 LAUNCH COUNTER	$\dashv$	U	JPL	MA	R			QΘ	62	J		4200501
	4200502	ο,		CB2 ASSY LAUNCH CTR				MA	R				62	J	089600	4200503
	4200503	PL	$\rightarrow$	CB2 LAUNCH COUNTER	$\dashv$	U	JPL	MA	R			08	62			4200502
ı	4200504			LAUNCH COUNTER 5A2		U	JPL	MA	R	- 1		08	62	J		4900501
	4200505			SUBCHASS LAUNCH COUT CB1 PC LAUNCH COUNTR		U	JPL	MA	R			08	62	٠,		4200503
ш	4200506			CB2 PC LAUNCH COUNTR!		U	1	MA	R		- 1	!	62	J	089500	
÷	4200510			CENTRAL CLOCK SCHEM		y.		MA	R			OB.	62	<u> </u>	090200	
	4200510			CENTRAL CLOCK SCHEM		- 1		MA	R			- 1	62	J		4200511
	4200510			CENTRAL CLOCK SCHEM		U		MA	R				62	با	092000	
	4200511		- 1		- 1	- 1		MA	R			- :	62	J	090700	
	4200511	<del></del> -		CB1 ASSY CENTRAL CLK CB1 CENTRAL CLOCK		¥.		MA	R			08.	62		040800	
	4200512	٠.		CB2 ASSY CENT CLOCK				MA	R		1	08	62	ا		4200511
₽.	4200512	Di	-	CB2 CENTRAL CLOCK	$\rightarrow$			MA	R				62		091600	
	4200513	-		CENTRAL CLOCK 5A1				MA	R		- 1		62	ا	092100	
	4200514			SUBCHAS CENTRAL CLCK	$\rightarrow$	-			R				62	J	090400	
	+200515			PC CB1 CENTRAL CLOCK	- 1	- 1	1	AM	R	- 1		08	1	J		4200513
	4200516			CB2 PC CENTRAL CLOCK	-			MA	R				62	٠- ا	091500	
•	4200520	ļ		MANEUVER CLOCK SCHEM	- 1	- 1	1	MA	R				62	J		42005172
•	OTES CHANGE TO	PREVIA			_ 1	UΙ	JPL	MA.	R		34	08	62	ا د	093400	4200521

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1	DRAWING NO.	BATH NO.	15		9	į	414848		1140	16 700 1728 THOV 162.	PESP. 019.	P0.	ATE TE	DRAWING CONTROL STATUS		NEXT ABSEMBLY	i
17	4200520	İ	B	MANEUVER CLOCK SCHEM		U	JPL	MA			34	08	62	J	094000	4200522	H
날	4200520	<del> </del>	B	MANEUVER CLOCK SCHEM	L	U	JPL	MA			34	08	62	J	092900	4200523	1 1
۱,	4200521	١,,	B	CB1 ASSY MANEUV CLCK	l	u	JPL	MA			34	08	62	<u>ט</u>	093000	4200523	
17	4200522	۲۲	B	CB1 MANEUVER CLOCK		U	JPL	MA	R		34	08		J	093500	4200521	
ĬĂ	4200522	ln.	B	CB2 ASSY MANEUV CLCK CB2 MANEUVER CLOCK		U	JPL	MA	R	- 1	34	08	62	) J	093700	4200523	
	4200523		윰	MANEUVER CLOCK 5A4		U	JPL	MA	R		34	08	62	بـ		4200522	
D	4200524		ĬĂ.	SUBCHASS MANEUVER		-	JPL	MA	R	i	34	08	62	J		4900501	
Ĭ	4200525	-	<del>lâ</del>	CB1 PC MANEUVER DUR	Н	U U	JPL	MA	R		34	08	62	ļ		4200523	<b>—</b> I
ľ	4200526		A	PC CB2 MANEUV CLOCK		U	JPL	MA	Ř		34	08	62	١		4200521	1
Ŭ	4200530	i -	1ĉ	ADDRESS REG SCHEM		D D	JPL	MA	R		34	08	62	<del></del>		4200522	Н
L)	4200530	l	ŀč	ADDRESS REG SCHEM		U I	JPL	MA	Ŕ	+	34		62	J		4200531	
Ū	4200530	1	ΙŘ	ADDRESS REG SCHEM	Н	U	JPL	MA	R			08	62	<u> </u>		4200532	$\vdash$
IJ	4200531		Ā	CB1 ASSY MANEUV OUPT		IJ	JPL	MA	R		34	07	62	J		4200533	
Ā	4200531	Pī	B	CB1 ADDRESS REGISTER	-	V	JPL	MA	R		_	08	62	ļ .		4200533	$\vdash$
IJ	4200532	-	ĪĀ	CB2 ADDRESS REGISTER		U	JPL	MA	R				62	ا ا		4200531	
Ā	4200532	Pi	lc i	CB2 ADDRESS REGISTER	$\dashv$	Ü	JPL	MA	휥			08	62	J		4200533	
Ь	4200533	, -	١ċ١	ADDRESS REGIS 5A6		ŭ	JPL		â			08	62	J		4200532	
D	4200534	_	À	SUBCHASSIS ADD REG	$\dashv$	1		MA	R			08	62	<u> </u>	094400		
IJ	4200535		A	CB1 PC MD OUTPUT		ŭ	JPL	MA	R			08	62	ا ب		4200533	
	4200536		A	CB2 PC MD OUTPUT		Ü		MA.	R			08	62		095300		
0	4200537			SUBCHASS END COUNTER	- 1	ŭ		MA	Ř.		- 1	08 08	62	) i	095900		
1	4200538			CB1 ASSY END COUNTER		ŭ			R			08	62	<u>J</u>	101900		
A	4200538	PL		CB1 END COUNTER		ŭ	JPL	MA	R		1	08	62	'		4200573	
J	4200539			CB2 ASSY END COUNTER		ŭ		MA	R				62	<u> </u>	102200		-
A	4200539	PL		CB2 END COUNTER		ŭl			R	- 1		0 B	62	'		4200573	
U	4200540			MANEUVER DUR SCHEM			-		R			08	62		102800		-1
1)	4200540			MANEUVER DUR SCHEM	- 1	ŭĺ			R	- 1		08	62	J	096900		
J	4200540			MANEUVER DUR SCHEM	-	<del>-</del> +			R		-		62	J			
إ	4200541	į		CB1 ASSY MANEUV DUR		ŭl	JPL		ŘΙ			- 1	62	,		4200543 4200543	- 1
A	4200541	PL	В	CB1 MANEUVER DURATON	_	U			R				62	J		4200541	$\dashv$
ارا	4200542	- 1		CB2 ASSY MANEUV DUR	- 1	ŭl			R				62				- 1
A	4200542	PL	В	CB2 MANEUVER DURATON	寸	ŭΙ			R				62	J.		4200543	[
D	4200543	_		MANEUVER DURAT 5A5		ŭΙ			R				62	7		4200542	- 1
D	4200544			SUBCHASS MANEUVER					R				62	J	097800	4900501	-
IJ	4200545			CB1 PC MANEUV DURAT		- 1			R			08		ا دُ		4200543	
J	4200546			CB2 PC MANEUVER DUR		ŭΙ			R		-+		62	J		4200542	-
	4200550		В	INPUT DECODER SCHEM	- Ji	υl	JPL	MA	R	1 -			62	ا د	098600		
	4200550			INPUT DECODER SCHEM		Ú	JPL	MA	R		_		62	J-	099100		$\dashv$
	4200550			INPUT DECODER SCHEM	1	υl	JPL	MA	R			08	62	ا ر		4200553	
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DRAWING LIST

	DRAWING NO.	DATH.	4 :	747LE	ź	3	VENODE CODE	84.	185 FOR	*****		ATE	CONTROL STATUS		NEXT ASSEMBLY	
1	-	*0.		Y 6 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	Ľ	Ľ.	L	\$1 Polit	TP4W 55*	2.		ļ.; <u>-</u> -	· ·	098300	4200553	+
	4200551		Α	CB1 ASSY INPUT DECOD		U	JPL	MA R		34		62	ر		4200551	
	4200551	PL		CB1 INPUT DECODER	ļ	U	JPL	MA R		34		62	<u></u>			
	4200552			CB2 ASSY INPT DECODE		U	JPL	MA R		34		62	J		4200553	
	4200552	PL		CB2 INPUT DECODER	L	U	JPL	MA R		34		62	<u> </u>		4200552	
	4200553		C	INPUT DECODER 5A7	1	U	JPL	MA R		34		62	J		4900501	
ļ	4200554		Α	SUBCHAS INPUT DECODE	L.	U	JPL	MA R		34		62	J		4200553	
1	4200555		Α	CB1 PC INPUT DECODER	Г	U	JPL	MA R		34	0.8	62	j		4200551	
1	4200556		Α	CB2 PC INPUT DECODER	L	U	JPL	MA R		34	08	62	<u></u>		4200552	
,	4200557		Ā	CB2 XFORMER RECT	Г	U	JPL	MA F		34	0.8	62	J		4200563	
١	4200557	PL	В	CB2 TRANSFORMER RECT		U	JPL	MA F		34	08	62	لا		4200557	
┪	4200558	-	A	TRANSFLUXOR TM10	Π	Ū	JPL	MA R	1	34	08	62	ز		4200573	
١	4200559	l	Α	CB2 PC XFMR RECTIF	1_	U	JPL	MA F		34		0.2	J		4200557	
1	4200560		D	XFORMER RECT SCHEM	Т	U	JPL	MA F		34	0.8	62	J		4200557	
.	4200560	l	D	TRANSFORMER SCHEM		U	JPL	MA F		34	0.8	62	J		4200563	
	4200561	<del>                                     </del>	18	CB1 XFORMER RECTIFER	T	U	JPL	MA F		34	08	162	ل ا	100500	4200563	
	4200561	Pi	Ī	CB1 TRANSFORMER RECT		lυ	JPL	MA F	:	34	08	162	J	100600	4200561	.
	4200562		В	CB1 PC XFMR RECTIF	+	U	JPL	MA F		34	0.8	62	J	100700	4200561	
	4200563	<b> </b>	lD	XFORMER RECT 5A8	1	Ιù	JPL	MA F	:	34	01	62	J	099500	4900501	
	4200564	<b>├</b>	la B	SUBCHAS XFORMER RECT	†-	Ťů	JPL	MA F		34	0.8	152	J	100800	4200563	Γ
	4200565		ľ	BRACKET DIODE XMFR	1	ľů	JPL	MA F		34	ln:	62			4200563	
	4200566		A	STRAP RELAY CC&S	t	Ť	JPL	MA F		34		152	J	101000	4200563	
	4200567	l	1^	INDUCTOR XMFR RECT	1	lŭ		MA A		34	01				4200563	
		<del> </del>	-	INSULATION BO XMER	+	lŭ	JPL	MA		34	01	+	J		4200563	
	4200568	l	١.	INDUCTOR BRKT XFORME	1	ľ	1	MA		34		62	Ĵ		4200563	
	4200569		A	FND COUNTER SCHEM	+-	10	JPL	MA		34		152	1 3	102400		
	4200570	!	D			ľ	JPL	MA F		34			ĭ		4200539	
	4200570	1	D	END COUNTER SCHEM	+-	U	JPL	MA		34	108		1 - ~			
,	4200570		D	END COUNTER SCHEM	1	U	JPL	MA		34	08		1		4200536	
_	4200571	ļ	8	CB1	+	+-		MA		34	0.8		<u> </u>			
j	4200572	1	A	CB2 PC END COUNTER		U	JPL	MA I		34			7		4900501	
	4200573	ļ	IC.	END COUNTER 5A3	+	ļŲ.	JPL			34		162	J	103100		
4	4200573		C	CB1 END COUNTER	1	ĮΨ	JPL	1		34			1 %		4200573	
<u>\</u>	4200573	TBF 2		CB2 END COUNTER	+-	Ų		MA		- +			<del>                                     </del>		4200573	
3	4200574	1	Α	TRANSFLUXOR TM7		U				34			1		4200573	
3	4200575	<u> </u>	В	TRANSFLUXOR TM8	+-	Ų	JPL	MA		34				103400		
ŀ	4200576	1	Α	TRANSFLUXOR TM9	1	U		MA		34			1 ~		4200513	
)	4200578	<u> </u>	A	TB1 PYROTECHNIC CONT	+	U		MA			01		4			
j	4200579	1	В	CB2 PC PYROTECHNIC	1	U	4	1	₹		[0]		1	104900		
j	4200580	l	В	PYROTECHNIC CONT 8A1		U		МД			<del>-, -</del> -		ļ <u>.</u>		4700501	
ĭ	4200581	I	Α	CBI ASSY PYROTECHNIC		U	,	1	۶		0.1		~	104100		
	4200582	i	1c	CB2 PYROTECHNIC CONT	1	Ιu	LJPL	MA	4	35	ln4	162	1 3	1 104500	14200580	Э.

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	RAWING	LI	S T														_
	DRAWING NO.	BetH BO.	d =	TITLE	3	173	\$1480E		##LEASE #AUGH 11		PESP.	**	Y A	CONTROL STATUS	L	ASSEMBLY	ĺ
1	4200582	PL	A	PYROTECHNIC CONT CB2		U	JPL	MA.				04		J	105000		
	4200584			BLOCK RELAY PYROTECH	L.	U	JPL	MA					51	<u> </u>		4200580	
	4200585		В	SUBCHASS PYRO CONT	Ì	U	JPL	MA	R			04	62	ٺ		4200580	Ì
ı	4200588		В	PIPING ATTITUDE INST		ļυ	JPL	MA	R			04	62	<u> </u>		4100316	4
ī	4200589		tc	BRKT SUPPORT	*	υ	JPL	MA	R	ĺ	34	09	62	J		4200558	
,	4200590	ŀ	1	RING SPT BRKT NITROG	1	U	JPL	MA	R		34	11	61	ن		4200569	
	4200591		-	PLATE SPT BRKT NITRO	T	U	JPL	MA	R	i	34	11	6]	J		4200589	
	4200592	ł		VALVE REGULATOR ASSY	1	U	JPL	MA	R		34	11	61	」		4200588	
	4200593		$\vdash$	BRACKET VALVE REGUL	T	lυ	JPL	MA	R		34	11	61	J		4200592	
	4200594			TEE SOCKET WELD SPEC	l	Ιu.	JPL	MA	R		34	11	6.1	. 4	041600	4200592	-1
	4200595		TA	BRACKET SUP YAW JETS	Т	U	JPL	MA	R	l	34	04	62	J	015400		
	4200596		lc.	ELECTRONIC ASSY	Ĺ	Ū	JPL	MA			34	0.8	62	<u>J</u>		4800370	
É	4200597		Ť	MAGNETIC SHIELD	Т	Τu	JPL	MA	R		34	01	62	J		4200410	
	4200597			MAGNETIC SHIELD	1	lu	JPL	MA	R		34	01	62	<u>J</u>		4200415	
	4200598	·	+	I V TRANSFORMER MTG	Т	ΙU	JPL	MA	R		34	01	62	J	049600	4200596	٠
-	4200599	1		H.V. TRANSFORMER MTG	!	Ιu	JPL	MA	R	-	34	0.1	62	J		4200596	
	4200600	<del> </del>	T <sub>R</sub>	GEAR TRAIN ANT DRIVE	Ť	ΙŪ	JPL	MA	8		34	02	62	J	043900	4100310	1
	4200601		٦	GEAR SPUR MOTOR ANT		Ιū	JPL	MA	R	- 1	34	10	61	i	046100	4200600	
-	4200603	<del>i —</del>	+-	ELBOW SOCKET WELD	T	Ťυ	JPL	MA	R		34	11	61	J	042200	4200588	J
	4200604	ľ		FIBOW SIDE OUTLET	1	1,1	JPL	MA	R	1	34	111	61		042300	4200588	Ц
	4200605	1	1	MANE 3 VALVE CONT	*	U	JPL	MA	R		34	110	62	,	042400	4200588	!
	4200606		12	MANIFOLD 2 VALVE DWG	۱.	1 ~	JPL	MA	R	ļ	34	lia	162		042500	4200588	Ł
	4200607		+~	TUBE FILL CONNECTION		ľů	JPL	MA	R		34		6	J	041700	4200592	1
-	4200608	1	١,	TUBE TRANSDUCER CONN		ľů		MA			34		61	J	041800	4200592	
-	4200610	<del> </del> -	+^	TEE SOCKET WELD	+	Ŭ	JPL	MA				11	61	J	041900	4200592	2
_		1		SLEEE SOCKET WELD		l.	JPL	MA	- 1		34	11	61	ر ا	042600	4200588	ì
		<del> </del>	+	SLEEVE SOCKET WELD	†-	TU.	JPL		R		34	†îî	161	J		4200592	
				ELBOW SOCKET WELD HP		lu.	JPL	MA		- 1	34	11	61	ر	042700	4200588	5
		-	+	SPIDER ASSY BRAZEMT	+-	ΤŪ	JPL	MA			34	111	61	J	042800	4200588	š
	4200615	1		FLANGE 3 BOLT		lu	1	MA		1	34	lii	161	J	042900	4200568	٤
	4200615	<b></b>	+-	IMANIFOLD VALVE	1	Ιŭ	+				34	111	167		042100	4200592	<u>.</u>
0	4200617	1	1.	TB3 PYROTECHNIC CONT		١,		MA			35	0.1	6.2	ز ا		4200618	
<u>-</u> .	4200618	+	A			ΤŬ	+				35	loi	6.2	1 3		4200580	
_	4200619		^	TB5 PYROTECHNIC CONT		1		MA			35	12	61	l J		4200580	
÷	-		+-	HOSE METAL FLEX ASSY		11	JPL				34	111	61	J		4200588	
C			١.	NOZZLE JET		١Ŭ			R		34			ļ Ū		4200588	
	4200624		10	SPACE THERMAL	+-*	1	+				134			1 -5		4200588	
	4200625	1	١.		.	٦Ľ	1 -		. 1	i	35			1		4200628	
	4200627		A	CB4 ASSY PYROTECHNIC		1			R		35		62	1 ~~~		4200580	
C			I A	SLEEVE SOCKET WELD	1	1	1 -				34			~		4200568	

				JET PR	01	יטי	LSIO	N I	LAE	ORAT	OR	Υ				
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חם	AWING		c T	. MARINER I	₹	62	FLIC	šΗŢ	ΝL	JMERIC	AL			PAGE	31	4-11-63
	AWING	1	3 1	· · · · · · · · · · · · · · · · · · ·	_											
i	DRAWING HO.	945H 80.	1 =		1	ä	C008	***	8490	15 FOR 116H THOU SER.	126F. 61V.	#0,	TR.	DRAWING CONTROL STATUS		NEXT S
	4200630		A	SHIELD REG WELDMENT	*	U	JPL	MA			34	11	62	۲	043400	4200588
	4200631		┖	SHIELD REG L WR WELD	丄	Ų	JPL	MA			34	01	62	J	043800	4200588
	4200633		١.	FRAME SHIELD REGULAT	ł	U	JPL	MA	R		34	01	62	J	043500	4200630
	4200634		ļĄ.	COVER FR SHIELD REG	Ļ.,	Ų	JPL	MA	R		34	04	62	J		4200630
	4200635		۱^	COVER TOP SHIELD REG	*	1 -	JPL	MA	R				62	J		4200630
	4200636		╄	TB6 PYROTECHNIC CONT	1	Ų	JPL	MA	R		35	01	62	J.		4200637
1 - 1	4200638		l			U		MA	3		35	01	62	J		4200580
	4200638		╁	TB SW AMPLFIER LOGIC	┝	U		MA	R		34		62	J		4200639
	4200638		l	TB SW AMPLFIER LOGIC	l	U		MA	R			02	62	J		4200640
	4200639		╀	CKT BD 3 ASSY SW AMP	⊢	U	JPL	MA	R		34		62	J		4200641
	4200640		ı	CB4SW AMPLFIER LOGIC	İ	U	JPL	MA	R		34 34		62	J		4200351
	4200641		╀	CKT BD 5 SW AMPL	⊢	Ü	JPL	MA	R		34	02	62	<u> </u>		4200351
1 - 1	4200642		A	COVER ALIGNMENT	*	lυ		MA	R		35		62	j		4200351
	4200643		۳	LATCHING COLLAR	r	Ü		MA	R		35		62	<del></del>	046900	4200820
1 - 1	4200647		1	CLUTCH SLIP ANT DRVE	ŀ	Ιŭ	I - · -	MA	R				62	J		4200620
11	4200648		⊢	TERMINAL BOARD 7	⊢	υ		MA	R		35	04	62			4200600
1 - 1	4200649			CB #1 PYROTECH CONT	ı	ŭ		MA				04	62	J		
1 - 1	4200655		╁	SPACER PYROTECHNIC	├	Ü	JPL	MA	_		35	04	62	J		4200580
1 - I	4200666		A	SENSOR ASSY PRIMARY	1	Ιŭ	JPL	MA	Ŕ		34	-	62	٠ .		4100310
	4200668		Â	SEC SUN SENSOR	1	ŭ	JPL	MA	R				62	<u>J</u>		4100310
	4200669			BRACKET SEC SUN SENS		Ιŭ	1	MA	R				62	ر		4200668
_	4200670		<del>  ``</del>	MASK	H	υ		MA	_				62	j		4200671
) - I	4200671		A	CELL ASSEMBLY E E	*	ŭ		MA			- '		62	J		4200668
	4200672		A	TB SECONDARY SUN SEN	<u> </u>	ŭ	JPL	MA	R		34		62	<del></del> J		4200668
- 1	4200673		A	SUN SENSOR ASSEMBLY	*	1 -	JPL	MA	R		34		62	J		4100306
	4200820		H	ARMING SWITCH ASSY	-	ŭ	JPL	MA	R				62	<del>Ŭ</del>		4100310
в	4200821			LANYARD ARMING SW		ŭ	JPL	MA	R				62	ا ت		4200820
D	4200822		Α	HOUSING PHOTOMULTPLR	*	Ŭ	JPL	MA	R				63			4800369
C	4200823			STEM RESISTOR BLOCK		Ιŭ	JPL	MA	R		1		62	ŭ l		4200826
C	4200824		Α	UPPER TERMINAL PLATE	*	ŭ	JPL	MA	R			_	63	,		4200826
C	4200825		A	LOWER TERMINAL PLATE	*	Ιũ	JPL	MA	R				63	ا ر		4200826
C	4200826		D	PHOTOMULT TUBE ASSY	*	Ū	JPL	MA	R			0.2		Ĵ		4200822
C	4200827		Α	COIL ASSEMBLY	*	Ū		MA	R				63	ار		4800369
D	4200828		Α	MAGNET ASSEMBLY	*	Ū	JPL	MA	R				63	Ĵ		4800369
D	4200829		A	BASE COIL	*	U	JPL	MA	R				63	Ū		4200827
C	4200830			SCREW RAIL		U	JPL	MA	R	T I	34	06	62	J	053500	4800369
<u>C</u>	4200831		L	RAIL	L	U	JPL	MA	R		34	06	62	}		4800369
C	4200832			HOUSING LENS		U	JPL	MA	R		34	06	62	Ĵ		4200848
C	4200B33		L	SHADE LIGHT	L	u	JPL	MA	R		34		62	L		4200848
* DE	NOTES CHANGE TO	PREVIO	0U\$ 1	IST												JPL 0513 JUNE SI

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•	DRAWING NO.	921# 80.	11	TITLE	1	1	45 meet	<u> </u>	MAJOR	28 FOG 1788 THEN 280.	PESP.	#0.	1A1E 178	DRAWING CONTROL STATUS		HEXT ABSEMBLY
-	4200834		+	BRACKET TRANSDUCER	$\vdash$	lυ	JPL	MA		7.00 010.	34	06	62	J	053800	4800369
	4200836			BRACKET CONNECTOR	ŀ.,	ĮŲ.	JPL	MA	R		34	06	62	Ū	049800	4200596
	4200837		Т	BRACKET BOARD ATTACH		Ū	JPL	MA	R		34	06	62	j ,		4200596
	4200838			REED CHOPPER DRIVE		lυ	JPL	MA	R		34	06	62	ا		4800369
	4200839			NUTPLATE CONNECTOR		Ū	JPL	MA			34	_	62	J		4200596
	4200840		1	SPACER LENS		Ιū	JPL	MA	R	ľ	34	06	62	Ĵ		4800370
	4200841		1	FRAME CHOPPER&COIL		ΙŪ	JPL	MA	R		34	06	62	J		4800369
	4200842		В	CHOPPER	*	Ιú	JPL	MA	R		34	02	63	Ĵ	054100	4800369
,	4200843			MOUNT REEDS	Г	Ū	JPL	MA	R		34	06	62	J	054200	4800369
	4200844		L	BEARING PLATE REEDS	_	lυ	JPL	MA	R		34	06	62	J	054300	4800369
	4200845		П	PICKOFF		U	JPL	MA	R		34	06	62	ſ	054600	4200852
į	4200846		Α	COVER BRAZEMENT		lυ	JPL	MA	R		34	08	62	J	050200	4200596
	4200847			HOUSING CHOPPER DRVE		U	JPL	MA	R		34	06	62	7	054400	4800369
	4200848			LENS ASSY	l_	U	JPL	MA	R		34	06	62	J	050800	4800370
	4200849		Г	STANDOFF BOARD MOUNT	Г	ΙŪ	JPL	MA	R		34	06	62	J	050400	4200596
ļ	4200850		A	HOUSING PHOTOMULTPLR	*	Įυ	JPL	MA	R		34	02	63	J '	052400	4200822
Ī	4200852		П	METRISITE REWORK	Г	Ū	JPL	MA	R		34	06	62	J	054500	4800369
	4200853		L.	NUTPLATE LENS	l	ļψ	JPL	MA	R		34	06	62	J	051100	4800370
ı	4200B55		П	WINDOW PHOTOMULTIPLR	П	U	JPL	MA	R		34	06	62	د	052500	4200822
	4200856		Ш	INSULATING CUP	L	Ш	JPL	MA	R		34	امما	62		.052600	4200822
	4200857			WASHER PHOTOMULTIPLE	Г	Īυ	JPL	MA	R		34	06	62	۲	052700	4200822
	4200858		1_	SHIELD		lυ	JPL	MA	R		34	06	62	Ĵ	052800	4800822
	4200859		П	INSULATOR PHOTOMULT		U	JPL	MA	R		34	06	62	J		4200822
	4200860			CAP PHOTOMULTIPLIER	L	ļυ	JPL	MA	R		34	06	62	ن	053000	4200822
	4200861			MOUNT MAGNET	Г	U	JPL	MA	R		34	06	62	j	054700	4800369
	4200862			SPEC SHIELD INSTL		υ	JPL	MA	R		34	06	62	J	053100	4200822
Ī	4200863			LOCATOR BASE		Ų	JPL	MA	R		34	06	62	J	051200	4800370
	4200864			ADJUSTING SCREW		υ	JPL	MA	R		34	06	62	J	054800	4800369
	4200865			PLUG POT ADJUST HOLE	*	U	JPL	MA	R		34	06	62	J		
	4200866			OUTLINE		U	JPL	MA	R		34	06	62	J	051400	4800370
	4200868			LENS COVER	l	υ	JPL	MA	R		34	06	62	J	051500	4800370
	4200872			CASE LONG RANGE	L_	lυ	JPL	MA	R		34	06	62		051600	4800370
ĺ	4200873			STRAP RAIL		υ	JPL	MA	R		34	06	62	J	054900	4800369
	4201036		Α	GYRO CONTROL SCHEM	*	U	JPL	MA	R		34	10	62	J	086053	4200300
	4201037			CB4 PRINTED CIRCUITY	*	U	JPL	MA	R		34	09	62	J	086052	4200312
	4201038		L	ENCAPSULATING CAP	*	U	JPL	MA	R		34	09	62	J	086054	4200300
	4201038			ENCAPSULATING CAP	*	U	JPL	MA	R		34	09	62	J	086020	4200302
	4201038		L	ENCAPSULATING CAP	<b> </b> *	U	JPL	MA	R		34	09	62	J	086024	4200303
	4201039			SLEEVE INSULATOR	*	U	JPL	MA	R		34	09	62	Ĵ		4200300
L	4201040		L	WASHER INSULATOR	*	ΙÜ	JPL	MA	R		34	09				4200300

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			1		Τ.	1.	TE > 00 E		ASE FOR	1007.		TASE	DRAWING			T
Ī	DRAWING NO.	pass po.	1 5	TITLE	1	3	6001	SERIAL	THEU SEP.	P17:	DO.	74	DRAWING CONTROL STATUS		NEXT ABSEMBLY	
3	4201041		В	SLEEVE INSULATOR	*	u	JPL	MA R		34	09	62	J	086060	4100300	Ť
	4201042		Α	WASHER INSULATOR	*	Ų	JPL	MA_R	l	34	09	62		086062	4100300	1
	4201043		Α	BLK DIAG DWG	*	U	JPL	MA R		34	11	62	J		4200588	
	4201044			BUSHING BOTTLE BRCKT	*		JPL	MA R		38	10	62	J.	043850	4200588	1
0				TRANSPONDER 2A1	Π	U	JPL	MA R		35	01	62	J	107100	4900501	T
- 1	4300188			TRANSPONDER 2A2		U	JPL	MA R		35	01	62	ال		4900501	
	4300194		Α	FILTER SUBASSY 2A9	П	U	JPL	MAR		35	11	62	J	129200	4900501	T
D	4300204		C	AUTO PILOT 7A4 SUBAY	*	U	JPL	MA R		35	12	62	J	131000	4900501	1
	4300205		C	ANTENNA & SERVO 7A13	*	U	JPL	MA R		35	12	62	J	132000	4900501	T
D	4400000			SUBCHASSIS	*	U	JPL	MA R		35	02	61	J	143406	4400004	ł
	4400002		F	PWR SUP 2.4KC SCHEM	*	U	JPL	MA R		34	1	62	J	143404	4400003	1
	4400003			2400CPS PWR AMPL 4A9	*	U	JPL	MA R		34	03	62	J	143401	4400204	į
5	4400004		D	SUBCHASSIS PWR SUP	*	U	JPL	MA R		34	03	62	J	143405	4400003	1
3	4400005		1	POWER XFMR T-1	*	U	JPL	MA R		34	04	61	J	143407	4400003	1
7	4400007		Ħ	BOOSTER REGULAT SCHM	1	U	JPL	MA R		34	01	62	j	134300	4400011	1
)	4400007		H	SCHEMATIC DIAG	1	U	JPL	MA R		34	01	62	J	134900	4400013	1
_	4400007		Ħ.	SCHEMATIC DIAGRAM	T	Ū	JPL	MA R		34	01	62	J	135300	4400086	٦
ı	4400009			INDUCTOR	1	U	JPL	MA R		35	0.5	61	J	134400	4400011	
Г	4400010		t	POWER XMFR T3	1	U	JPL	MA R		34	10	61			4400011	
)	4400011		Ь	BOOSTER REGULATOR		lυ	JPL	MA R		34	12	61	J		4900501	
	4400012			CHASS BOOSTER REG	*	u	JPL	MA R	1	34	09	62	J		4400011	
	4400013			CAPACITOR SUBASSY	ļ	Ū	JPL	MA R		34		61	J		4400011	
	4400014		H	CHASSIS	1	Ιŭ	JPL	MA R		35		61	Ĵ		4400013	
	4400015		В	COVER	1	ŭ	JPL	MA R				61	Ĵ		4400011	
5	4400016		Ē	SUBCHASS BATT CHARGE	+	Ιŭ	JPL	MA R	<b>†</b>	34		61	J		4400042	
5	4400017			400 CY PWR SUP SCHEM	1	Ιŭ	JPL	MA R	1	35		62	Ĵ		4400018	
	4400017		Ē	400 CY PWR SUP SCHEM	+-	Ιŭ	JPL	MA R	<del>                                     </del>	35		62	<del>- j</del>		4400026	
	4400017		ΙĒ	400 CY PWR SUP SCHEM	1	ŭ	JPL	MA R	1		03	62	Ĵ		4400029	
	4400017		Ē	400 CY PWR SUP SCHEM	1	ŭ	JPL	MA R			03	62	J		4400077	
	4400017			400 CY PWR SUP SCHEM	1	ш	JPL	MA R	1			62	J		4400093	
5	4400017		+	400 CY PWR SUP SCHEM	+	Ιŭ	JPL	MA R	<u> </u>	35	03		J		4400211	
	440001B	DI	-	PARTS LIST		Ιŭ	JPL	MA R		35		61	Ţ		4400018	
<u>.</u>	4400018		E	400 CPS PWR AMP 4A8	+-	ŭ	JPL	MA R	<del> </del>		06		<del>_</del>		4900501	
j	4400019			SUBCHASS ASSY POWER		Ιŭ	JPL	MA R	1	35		61	Ĭ		4400018	
	4400022			XMFR T3 POWER SUPPLY	t	Ιŭ	JPL	MA R	<del>                                     </del>			611	Ĵ		4400018	
	4400023			CHOKE LI POWER SUPLY	1	lŭ	JPL	MA R		34		61	j		4400018	
	4400025		<del>ا</del> ّ	TRANSISTOR SUBASSY 1	✝	ŭ	JPL	MA R	+	35	0.6		<del></del>		4400018	
	4400026		l <sub>A</sub>	TRANSISTOR SUBASSY 1	1	U	JPL	MA R			12		J		4400018	
	4400027		+^-	INSULATOR POWER SUPP	✝	U	JPL	MA R	+	35			<del></del>			
•	0002/		1	INSULATOR PWR SUPPLY		ľ	JUPL	MW K	1	122	06	61	J	1 7 2 0 7 0 0	4400018	- 1

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1	DRAWING BO.	944E 80.	ŧ	TITLE	į	97	71 H041	-	B PAGE	7 17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PESP. 644.		74 71	DRAWING CONTROL STATUS		NEXT ASSEMBLY	i ś
۵	4400029		Т	CB1 PWR SUPPLY		U	JPL		Ŕ		35	06	61	J	137100	4400018	
	4400029	PL	A	CB1 400 CYCLE PWR	L	υ	JPL		R		35	06	61	J		4400029	<u> </u>
U	4400030		1	TRANSISTOR SUPPORT		U	JPL	MA	R	i	35	06	61	J	136800	4400026	1
۵	4400031		D	POWER SYNCHRO 4A6		U	JPL	MA		L	35	03	62	. J	138400	4900501	
Ď	4400032		F	SUBCHASSIS PWR SYNC		U	JPL	MA	R		34	03	62	J		4400031	Г
D	4400033			CB1 POWER SYNCHRON	L.,	U	JPL	MA	R		34	04	61	J	139300	4400031	
A	4400033	PL	Τ-	CB1 POWER SYNCHRON		U	JPL	MΑ	R		34	11	61	j	139400	4400033	Г
D	4400034		A	CB2 POWER SYNCHRON		U	JPL	MA	R		34	08	61	J	139700	4400031	
A	4400034	PL	В	CB2 POWER SYNCHRON	П	U	JPL	MA	R		34	07	61	J	140100	4400034	
J	4400035	İ	F	POWER SYNCHRON SCHEM		U	JPL	MA	R.	L	34.	0.3	62	J	140400	4400031	•
5	4400035		F	POWER SYNCHRON SCHEM	Г	U	JPL	MA	R		34	0.3	62	J	139500	4400033	[
J	4400035		IF.	POWER SYNCHRON SCHEM	l	Ü.	JPL	MA	. R.	L	34	0.3	62	J.	140200	4400034	
7	4400035		F	POWER SYNCHRON SCHEM		Ų	JPL	MA	R		34	03	62	J	140900	4400083	
J	4400036			PCB	l	Ú	JPL	MA	R		35		61	Ū		4400033	ļ
0	4400037		Т	PC TB2 POWER SYNCHR		Ü	JPL	MA	R		34	04	61	Ĵ		4400034	П
c	4400038		A	XFMR DRIVER PWR SYNC	ı	U	JPL	MA	R		34	06	61	J	140500	4400031	
	4400039		Т	SATURABLE XFMR		Ū	JPL	MA	R		34	04	61	J	140600	4400031	
J	4400040	l	L	SCHEMATIC DIAG	1	Ū	JPL	MA	R		34	06	62	Ĵ	186000	4400046	1
-	4400040		D	SCHEMATIC DIAG	Г	U	JPL	MA	R		34	09	61	J	186400	4400048	П
٥.	4400040	L	D	SCHEMATIC DIAG	l	lυ	JPL	MA	R		34	09	61	J	187800	4400055	1
۵	4400040		ID	SCHEMATIC DIAG	Г	U	JPL	MA	R		34	09	61	J		4400063	Г
٥	4400042	Į.	F	BATTERY CHARGER 4A7	l	lυ	JPL	MA	R		34	11	61	J	141100	4900501	1
٥	4400043		D	CB1 BATTERY CHARGER	Π	u	JPL		R		34	10	61	J		4400042	Т
A	4400043	PL		CB1 BATTERY CHARGER	ļ	Ιū	JPL	MA	R		34		62	J		4400043	1
U	4400044		G	SCHEMATIC DIAG		U	JPL	MA	R		34		62	j		4400042	1
c	4400044	ļ.	١G	SCHEMATIC DIAG		lυ	JPL	MA	R		34	03		Ĵ.		4400043	
5	4400044		G	SCHEMATIC DIAG		Ū	JPL		R		34		62	Ĵ.		4400053	Т
اما	4400045		A	PC TB1 BATT CHARGER	Ì	Ū	JPL	MA	R			09		Ĵ		4400043	1
7	4400046		K	4A1 PWR SWELOGIC	*	U	JPL	MA	R		34	10	62	J	185500	4800296	
J	4400047		н	SUBCHASS ASSY PW SW	*	Ū	JPL	MA	R		34	09	62	Ĵ		4400046	
٥	4400048		В	TRANSFORMER ASSY PWR		Ū	JPL	MA	R		34	10	61	J		4400046	
8	4400049			XFORMER	1	U	JPL	MA	R		35	0.5		Ĵ		4400048	1
В	4400050		Т	XFORMER	Г	Ū	JPL	MA	R		35		61	j j		4400048	
Ú	4400051	1	Ь			ΙŪ	JPL		R		34		62	ز		4400046	
В	4400052		A	TRANSFORMER		Ü	JPL	MA			34		61	J		4400053	
	4400053	l		TELEMETERING OSC ASY	1	Ιŭ	JPL		R	l	34		61	Ũ		4400046	
	4400054		Ā	SUPPORT TEL OSC PWR	1-	ΙŬ	JPL		R			10		J		4400053	
	4400055	l	lc	CB1		Ιŭ	JPL		R	l	34		62	Ĵ		4400053	
	4400055	PL	B	CB1		Ιŭ	JPL		R	T	34			J.		4400055	
	4400056	1	Ā	PC TB1	ŀ	Ū	JPL	MA			34	0.7		ā		4400055	

				CALIFORNIA IN	STIT	UTE	OF TEC	HNO	LOGI	r, PASADI	ENA, (	CALIF				DATE LISTE
F	AWING	L I	ST	MARINER										PAGE	35	4-11-6
i	DRAWING NO.	MO.	15	TITLE	1	197	CG 04		EELES BASO BIAL	174 P	819P.	#0.	tasa ATG	DRAWING CONTROL STATUS		NEXT ABSEMBLY
2	4400059		В	CB3	Т	Ū	JPL	MA			34	07	61		188300	4400046
2	4400063		В	CB5 POWER SWITCHING	┸	U	JPL	MA	R		32	01	62	J	188400	4400046
,	4400064	ļ	<u>^</u>	PC CB5		U	JPL	MA			35	07	61	J	188600	4400063
_	4400077		A	CB2 PWR SUPPLY	$\perp$	U	JPL	MA			35	08	61	J	137500	4400018
١.	4400077	PL	A	CB 2 PWR SUPPLY		U		MA	R		34	08	61	J	137700	4400077
_	4400078			CB1 PWR SUPPLY	_	U	JPL	MA	R		35	06	61	J	137400	4400029
	4400079		A	CB1 PWR SUPPLY	1	Ū	JPL	MA	R		35	08	61	J	137800	4400077
	4400081 4400083		Α	AMPLIFIER MAG ASSY	L	U	JPL	MA	R		34	10	61	J	188100	4400053
				CAPACITOR ASSY	1	U	JPL	MA	R		34	07	61	J	140700	4400031
	4400086		H	CAPACITOR ASSEMBLY	L	U	JPL	MA	R		34	07	61	J	135200	4400011
			A	CB4	İ	U	JPL	MA	R		34	09	61	J	141900	4400016
	4400089			CB1 BSTR REG & POWER	L.,	U	JPL	MΑ	R		34	12	61	J	135400	4400011
1	4400089	PL		BOOSTER REG CB1		U	JPL	MA	R		34	01	62	J	135700	4400089
4	4400090		Α	PRINTED CIRCUITRY CB	<u></u>	U	JPL	MA	R		35	08	61	J	135800	4400089
	4400093		П	CB3 PWR SUPPLY	İ	U	JPL	MA	Ŕ		35	08	61	J	137900	4400018
	4400126		L	WASHER INSULATION	l	U	JPL	MA	R		34	10	61	J.	188200	4400053
- 1	4400127			CHASSIS POWER	*	U	JPL	MA	R		35	12	62	J		4400204
	4400200			BATTERY CHASSIS 4A14		U	JPL	MA	R		35	12	61	J	142800	4900501
- 1	4400201		C	CHASSIS BATTERY	*	U	JPL	MA	R		33	09	62	)		2011000
	4400202		Ц	COVER BATTERY	*	Ų.	JPL	MA	_R		33	10	61	Ĵ		2011000
	4400204			CHASSIS POWER ASSY		U	JPL	ΜA	R		35	01	62	J		4900501
	4400210		Ш	TOP SHIELD ASSY		U	JPL	MA	R		34	01	62	J		4900501
	4400211			CB4 400 CYCLE PW SUP		U	JPL	MA	R		34	03	62	J	138100	4400018
	4400213			CHOKE L3 PW SUPP 400	L	Ų	JPL	MA	R		34	03	62	ا ر	138300	4400018
	4400215			CHOKE L1 POWER SYNC	Γ,	U	JPL	MA	R		34	03	62	J		4400031
	4400216			CHOKE LZ PWR SWELOGC		U	JPL	MA	R		34	03	62	ا ر		4400046
	4400218			LUG TERMINAL	ľ	υ	JPL	MA	R		34	06	62	J		4400046
	4400219			CHOKE L3		Ų.	JPL	MA	R		34	06	62	ا ن	188900	
	4500034			SENSOR EARTH LONG		¢	JPL	MA	R		34	08	61	J		4100310
	4500045		A	SCHEMATIC		U	JPL	MΑ	R		35	05	61	J	085700	
	4500121			CHASSIS ASSY DATA		U	JPL	MA	R		35	01	62	Ĵ		4900501
4	4500122		Α	ACTUATOR ASSEMBLY	_	U	JPL	MA	R	1		03	62	ŭ l	059600	
	4500123			HOUSING ACTUATOR		S	JPL	MA	R		35	01	62	Ĵ	059900	
	4500124			COVER ACTUATOR	*	Ų	JPL	MA	R			09	62	ا رَ	060000	
	4500125			PLATE A MOUNTING		U	JPL	MA	R			01	62	J	060100	
	4500126			PLATE B MOUNTING		u	JPL	MA	R			oī.	62	J I	060200	
	4500127		T	SHAFT C ACTUATOR		U	JPL	MA	R				62	<del></del>		4500122
	4500128		$\Box$	SHAFT D ACTUATOR		υl	JPL	MA	R	i i		01	62	ا ر	060400	
	4500129		П	SHAFT F ACTUATOR		Ü	JPL	MA	R				62	J		4500122
Ŀ	4500130			SHAFT G ACTUATOR		Ū	JPL	MA	R			01	62	ا ز		4500122

) F	RAWING	LI	s t	CALIFORNIA IN MARINER I								CALIF.		PAGE	36	4-11-6	
7	DRAWING NO.	9168	11	TITLE	i	8	71 1964 (001			17 FM	BESP,		TAFE TE	DRAWING CONTROL STATUS		NEXT	Ī
-	4500131	_	┢	FLEX JOINT	†-	lυ	JPL	MA		7844 211.	35	01	62	J	060700	4500122	+
	4500132		A	LEVER SW ACTUATOR		U	JPL	MA	R		35	04	62	J.		4500122	
3	4500133		Γ	HOUSING SWIVEL JOINT	1	Ū	JPL	MA	Ř				62	j		4500142	
	4500134			MOUNT SWIVEL JOINT		U	JPL	MA	R		35	02	62	J		4500142	
,	4500137		ΙΤ	COUPLING ACTUATOR	Г	Ü	JPL	MA	R		35	01	62	J		4500122	
	4500138			SPACER FLEX JOINT	İ	υ	JPL	MA	R		35	01	62	j		4500122	
	4500139			POTENTIOMETER		U	JPL	MA	R		35	01	62	J		4500122	
	4500141			BOLT SWIVEL JOINT		U	JPL	MA	R		35	02	62	J	062500	4500142	
	4500142			SWIVEL JOINT ASSY	П	U	JPL	MA			35	02	62	j 📉	062200	4800408	
	4500143		A	SPRING COMP SW LEVER	L	U	JPL	MA			35	04	62	J	061200	4500122	
	4500144			SPLINE CLUTCH		U	JPL	MA	R		35	01	62	J	061300	4500122	٠
	4500145		Ш	GEAR BEVEL CLUTCH	L.,	v	JPL	MA	R		35	01	62	J	061400	4500122	
	4500146		1	SPACER CLUTCH		U	JPL	MA					62	J	061500	4500122	
-	4500147		Ш	HUB CLUTCH	L	U	JPL	MA			35	01	62	ل ا	061600	4500122	
	4500148		Ιi	FACING CLUTCH	ĺ	U	JPL	MA	R		35	01	62	J	061700	4500122	
_	4500149		Ш	GEAR HEAD	Ĺ	U	JPL	MA	R		35	01	62	J	061800	4500122	
	4500150		Ш	TB1 ACTUATOR	П	Ü	JPL	MA	R		35	03	62	J		4500122	
_	4500151		Ш	TB2 ACTUATOR		υ	JPL	MA	R		35	03	62	J		4500122	
	4500152			SHIELD , CHASSIS ASY	*	υ	JPL	MA	R		35	12	62	J		4500121	٠
	4500153		A	TOP SHIELD ASSY 3	*	υ	JPL	MA	R		35	12	62	J		4900501	
	4500154		ŀ	WASHER		υ	JPL	MA	R		35	12	61	ſ		4600339	
	4500154		Ш	WASHER		U	JPL	MA	R		35	12	61	_ J		4800406	
	4500154			WASHER		C	JPL	MA	R		35	12	61	J		4901001	
_	4500155			TEMP REFERENCE ASSY		٥	JPL	MA	R		32	07	62	J	055000	4100310	
	4500156			SUPPORT INFRARED		U	JPL	MA		1	32	07	62	J	055100	4500155	۰
	4500157			SHIELD INFRARED RADM		U	JPL	MA			32	07	62	J	055200	4500155	
	4500158			MTG BLOCK TEMPERATUR		U	JPL	MA					62	C	055300	4500155	۰
	4500159			SPACER TEMP SENSI	Ш	U	JPL	MA			32	07	62	J	055400	4500155	
	4500160			TEMP SENSISTOR SCHEM	1	υ	JPL	MA	R		32	07	62	۲	055500	4500155	
	4500160			TEMP SENSISTOR SCHEM		U	JPL		R		32	07	62	ر	055900	4500161	
	4500161			CB ASSY	Ш	U	JPL	MA	R		32	07	62	J	055700	4500162	
	4500162			CONNECTOR ASSEMBLY		U	JPL	MA	R		32	07	62	. J . 1	055600	4500155	
	4600001			HOUSING ASSY		υ	JPL	MA			35	09	62	J		4600008	۰
	4600002			HOUSING CATHODE SECT		u	JPL	MA			33	03	6Ï			4400003	
	4600003			HOUSING PLATE SECT	*	U	JPL	MA	R		33	03	61	J		4400204	٠
	4600004			COVER CATHODE SECT		U	JPL	MA			35	Q3	61	ر ا		4600001	
	4600005			COVER PLATE SECT		U	JPL	MA	R		35	03	61	J		4600001	٠
	4600006		Α	SHIELD CATHODE SECT		U	JPL	MA	R		35	07	61	J		4600001	
١	4600007			SHIELD PLATE SECT	ΙĪ	U	JPL				35	07	61	Ĵ		4600001	
ł	4600008	- 1	- 1	XPONDER CAVITIES 2A3	ı	u	JPL	MA	RΙ		35	12	61	1		3172189	ı

# JET PROPULSION LABORATORY CALEORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARINER R 62 FLIGHT NUMERICAL

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DRAWING LIST

_	1	144	ند د	TITLE		5	*****		ASL FOR	1017.		1468	DRAWING		NEXT ASSEMBLY	1
i	DRAWING NO.	no.	:	1,114	5	3	CORE	<b>PCDIAL</b>	1809 \$14.		MD.	71	CONTROL STATUS			
В	4600012			TERMINAL		U	JPL	MA R		35	04		J	079000	4600008	1
В	4600013			TERMINAL		Ų	JPL	MA R	ļ	35	07	61	ئ		4600008	ш
В	4600014		Α	TERMINAL INSULATOR		U	JPL	MA R	1	35		62	J		4600008	1
в	4600015			GROUND PLATE		U	JPL	MA R		35		61	J.		4600008	Ш
D	4600016		A	HOUSING INSULATOR	*	Ų	JPL	MA R		33		61	J	142710	4400042	
в	4600017		1	B ROD INSULATOR		U	JPL	MA R		35	04	61	J		4600008	╙
В	4600018			B ROD INSULATOR		U	JPL	MA R	1	35	04	61	J.		4600008	
В	4600019		İ	B ROD		U		MA_R		35	04	61	J		4600008	Ļ.
В	4600020		1	OUTPUT PROBE		U	JPL	MA R		35	04	61	J		4600008	
В	4600021			F-2 PLATE INSULATOR		u	JPL	MA R			04	61	ـ نـ		4600008	$\perp$
В	4600022			F-1 PLATE INSULATOR		U	JPL	MA R		35	04	61	J		4600008	
8	4600023			K-PLATE INSULATOR		U	JPL	MA R			04	61	J		4600008	₩
8	4600024		1	B ROD	Г	U	JPL	MA R		35	04	61	J		4600008	
В	4600025		ı	INSULATOR		U	JPL	MA R			04	61	J		4600008	$\perp$
В	4600026	_	1	B ROD SLEEVING		U	JPL	MA R		35	04	61	J		4600008	1
В	4600027	ł	1	TUNING PROBE		U	JPL	MA R	1	35		61	ن ا		4600008	1_
В	4600028		A	CATHODE TAP FEMALE		U	JPL	MA R	T	35		62	ز	080500	4600008	1
c	4600029		ļ	F 2 PLATE	1	ļυ	JPL	MA R		35	0.4	61	ال		4600008	1
Č	4600030		A	K-PLATE	Γ	U	JPL	MA R			01	62	ئ	080700	4600008	
ľċ	4600031		A	F-1 PLATE		lυ	JPL	MA R		35	09	61	ل	080800	4600008	┺
Ìċ	4600032		1	CATHODE TAP MALE	Г	U	JPL	MA R	1	35	04	61	J	080900	4600008	i
č	4600033			LINE PLATE INSULATOR	1	lυ	JPL	MA R		35	104	61		081000	4600008	↓_
B	4600034	-	1	GROUND PLATE INSERT	Г	Īυ	JPL	MA R		35	04	61	J		4600008	
8	4600035			F-2 INSERT		U	JPL	MA R			04	61	J		4600008	
B	4600036	<del>                                     </del>	t	K PLATE INSERT	1	U	JPL	MA R		35	04	61	J			
В	4600037		1	SCREW INSULATOR	1	U	JPL	MA R		35	04	61	j j			
В	4600038	1	1	LINE PLATE INSULATOR	T	U	JPL	MAR	T	35	04	61	J			
ī	4600039	1		LINE PLATE	l	U	JPL	MA R		35	04	61	J		4600008	
c	4600040	1	1	GROUND PLATE	Ι	U	JPL	MA R		35	04	61	ل		4600003	
١č	4600041		Δ	THERMAL COMPENSATOR	<b> </b> *	υ	JPL	MA R		35		62	الع		4600008	
Ť	4600042	T	A	TUNING PROBE HOUSING	*	U	JPL	MA R		35	109	62	J	081900	4600041	
c	4600043	l	lв		*	Ìΰ	JPL	MA R		35	109	62	<u> </u>	082000		
ÌВ	4600044	<b>†</b>	A		*	U	JPL	MA R	.	35	09	62	j j		4600041	1
В	4600045	1	A	TUNING PROBE INSULTR	*	lυ	JPL	MA R		135	0.9	62	<u> </u>		4600041	
B	4600046	1	A	RETAINING PIN	*	Ų	JPL	MA A		135		62	نا	082300		i
č	4600052	1	1	WASHER REINFORCEMENT	1	U	JPL	MA A		33		61	<u> </u>		4600076	
ŀč	4600052	<b>†</b>	$^{+}$	WASHER REINFORCEMENT	Г	U	JPL	MAR		33	]0 t	61	J		4600097	
В	4600053	1		PLA'E REINFORCEMENT		Ų	JPL	MAR		33	106	61	1		4600097	
B	4600056	+	IA.		T	1J	JPL	MA R		33	106	61	J	004300	4600098	
В	4600057	1	1	RIB LONG ELEMENT	1	Ιú		MA B		33	0.5	51	<u> </u>	004400	4600098	
	ENOTES CHANGE	IO PREV	10115												JPL 0513 JUN	4 E 61

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D F	RAWING	LI	s T	MARINER R		2	FLIC	ЭНТ	NL	JMERIC	AL			PAGE	38	4-11-6	
1	DRAWING NO.	0.49#	15		ÇH.	3	VEX002		*410	11 100 2 11 EH	atur.		144	DRAWING CONTROL STATUS		NEXT ASSEMBLY	9
		•••	1.	RIB SHORT ELEMENT	-	Ū	JPL	MA	R	1420 107.	33	06	61		004500	4600098	T
В	4600058		1	RING SUPPORT		ŭ		MA			33	06	61	Ĵ		4600098	
В	4600059		A	PC TURNSTILE ANT	$\vdash$	tŭ		MA		i —	33	0.8	61			4600099	
J	4600060			HOUSING CATHODE SECT		Ü	JPL	MA			35	1 "	61	Ü	078800	4600001	Ţ
D	4600073	ļ	B	HOUSING PLATE SECT	-	U	JPL	MA			35	01	62	J	078900	4600001	Т
-	4600074		В			Ü	JPL	MA		1	33		62	Ĵ	003300	4100306	1
C	4600076		В	ANTENNA DIPOLE	⊢	ü	JPL	MA		<del> </del> -	33	08	6.	J		4600076	
C	4600077	1	IA.	BODY ASSEMBLY		1 -	JPL	MA			33		62	Ĵ		4600077	
_	4600078		IA.	BOARD CIRCUIT DI-PLE		U	JPL	MA			33	0.7	61	<del></del>		4600078	
D	4600079			ART WORK DI-POLE	١.	U	1			1	33		62	-		4600098	
Ç	4600080		₿	CONDUCTOR ASSY ANT	-	ĮŲ.	JPL	MA		<del> </del>	+					4600080	
C	46000B1	i	A	BASE		'n	JPL	MA			33		61	J.		4600081	
В	4600082	<u></u>	Α	BASE PLATE	┞	14	JPL	MA		<del> </del>	-	0.8	51			4600081	
В	4600083	İ	A	CONDUCTOR	1	ĮΨ	JPL	MA			33	C 8	61	. J		4600081	
В	4600084		IA.	BUSHING	↓_	ĮŲ.	JPL	MA			33		61	¥		4600080	
В	4600085	1	A	CONNECTOR RF MOD	l	l٦	JPL	MA		1	33		6.	_		4600080	
В	4600086	1	В	CONDUCTOR CENTER	Ļ.	U	JPL	MA		1	33	04	62				
В	4600087	T	Т	GUSSET	*	U	JPL	MΑ				07	61	J		4600077	
В	4600088	1	A	COLUMN	1*	ĮΨ	JP4	MA			33	08	51			4600077	
В	4600039		Т	CAP CENTER CONDUCTOR	1	U	JPL	MA		i	33		6.	J		4600076	
В	4600089			CAP CENTER CONDUCTOR	1_	ļΨ	JPL	MA			33	0.7	0.1			4600097	
C	4600097		A	ANTENNA COMMAND		U	J.JPL	MA			33	01	62	l J	003800		
č	4600098	1	A	BODY ASSEMBLY	L	U	JPL	MA			33	្ន	61			4600097	
Ĉ	46C0099		В	CB COMMAND ANTENNA	I	U	JPL	MA			33	04	02	J	005400		
В			-	PLATE REINFORCEMENT	1	Įυ	JPL	MA	t P		133	107	15.	<u></u>		4600076	
D	4600152	<del> </del>	B		×	U	JPL	MA	A R		33	10	62	1		4600008	
c		1	-	TRANSDUCER	ı	U	JPL	MA	A R		35	09	61	<u> </u>		4400204	
Č	4600161	1	+-	TRANSDUCER	T	Tu	JP:	MA	4 R		35	0.9	61	J		4500121	
ľč		1	į.	TRANSDUCER	1	10	JPL	. MA	A R		35	09		<u></u>		4600333	
łč		+		TRANSDUCER		U	JPL	MA	4 R	1	35	09	6	ال ا	189400		
Ιč		1		TRANSDUCER	1	lυ	JPL	M/	A R		33	11	61			4800297	
ť		+-		TRANSDUCER	T	iu	JPL	MA	A R	T	35	109	61	J		490050	
ľ		1	-	SURFACE TEMPERATURE	1	U	JPL	M	A R	1	135	0.9	61		204400	410040	
늄	+		B		+	ΤŪ					.33	0.4	162	J	056000	4100310	
a			10	SPACER BEARING OUTER		lu		M	A R		133	10	61	1 3	057300	460018	
H			+	SPACER BEARING INNER		10					33			J		460018	
8			-	SPACER DIELECT SMALL		1	1 -				33		61	ال	057500	460018	3
-			+-	SPACER DIELECT INNER		1					33		161	J	057600	460018	3
8			lo	1	١,	- 1 -					35			Ĵ	145100	490050	1
إ					-1-	1					35		62	J	147700	490050	1
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10	4600310	1	10	COMMD DECOD 3A4	Ľ	. 16	11076	- 1191		<u> </u>		1+6	102	·	1 2 7 7 7 7	100 0413 11	

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2	DRAWING NO.		3 :	TITLE	1,	TE		Т	***	St FOR	arie,	•••	CASI	DRAWING	<del></del>	<del></del>
•		#Q.	ــ.	L	1	3	cont		BIAL	THE 840.	MV.	wo.	VA.	DRAWING CONTROL STATUS	i	ASSEMBLY
7	4600311		D	COMMAND DETECTOR 3A1		U	JPL	MA	R		35	12	62	J	163000	4900501
2	4600312		A	XMFR REC SUBASSY ENV	4_	ļυ	JPL	MA			33	10	61	J	167100	4900501
	4600313		В	CIRC & PWR MON 2A6	1	Įυ	JPL	MA			35	12	61	J	167900	4900501
	4600317		В	JUNCTION BOX SCHEM	1	U	JPL	MA	R		33	01	62	J		4600318
	4600318		0	COMMUNICATIONS 2A5	1	Įυ	JPL	MA			33	09	62	j		4900501
	4600318	۲.	В	JUNCTION BOX COMMUN	┸	U	JPL	MA				01	62	J	168800	4600318
- 1	4600319		В	CBI PC JUNCTION BOX	T	Ū	JPL	MA	R		33	01	62	J		4600318
	4600320		ļ.,	SPACER JUNCTION BOX	┸	U,	JPL	MA			33	10	61	J	169000	4600318
	4600321			SUBCHASS JUNCT BOX		U	JPL	MA			33	08	62	J		4600318
	4600322			ANAL-DIG CONVTR 6MT1		U	JPL	MA			35	12	61	J	169200	4900501
	4600323			LO LEVEL COMPAR 6A1	1	Ū	JPL	MA			35	12	61	J	170700	4900501
_1	4600324		D	COMMUTATOR DECKS 6K2		U	JPL	MA			35	01	63	J	171700	4900501
	4600325			DECKS 0 1 263 6K1	*	Ū	JPL	MA				01	63	J		4900501
_1	4600326			BLIP REGISTERS 6MT4	1_	U	JPL.	MA			35	11	61	J	176400	4900501
- 1	4600327		В	TRANSFER REGIST 6MT3	1	U	JPL	MA	R		35	12	61	J	178000	4900501
_1	4600328			PN GENERATOR 6MT2		U	JPL	MA	R J	ļ	35	12	61	J		4900501
	4600329		В	ENCODER TR 6TR1	Т	Ü	JPL	MA	R		35	12	61	J		4900501
	4600330		L	TEE CONNECTOR	l	U	JPL	МΑ	R		35	11	61	J		3172189
•	4600331			STRAP	П	U	JPL	MA	R		35	11	61	J		3172189
-	4600333		D	CHASS ASSY L-BAND		lυ	JPL	MA	R	- 1	33	01	62	j.		
- 1	4600337			SHIELD CHASSIS	П	U	JPL	MA	R				61	J		4500121
	4600338		[	SHELL OUTER CHOKE		lυ	JPL	MA	R I	ĺ			61	Ĭ		4600183
	<b>600339</b>		A	SHIELD CHASSIS ASSY	T-	Ü	JPL	MA	R				62	Ĵ		4600333
1	4600340		8	ANT OMNI-DIRECTIONAL	*	ŭ	JPL	MA				!	62	ŭ		4100310
T	4600341		П	GROUND PLANE UPPER		Ū	JPL	MA	R			03		J		4600340
ı	4600342	ı		CONE-OUTER TUBE SUBA		U	JPL	MA	R			03		ا ر		4600340
Ţ	4600456		ヿ	CYL SUPP OMNI ANTENA	*	Ū	JPL	MA				12		<del></del>		4600340
ŀ	4600602	1	- 1	ATT CONT GAS SCHEM	*	υ	JPL	MR	52		34	•	61	ŭ l	037320	-0000340
ŀ	+700188		A	VANE	*	Ü	JPL.	MA	R		_		62	j	221300	4700213
ŀ	4700213	_	A	SERVO ASSEMBLY	*	υĺ	JPL	MA	R	ſ			62	Ĭ.	221000	
ŀ	4700300			UNIT MIDCOURSE PROP	П	υ	JPL	MA	R			02		<del></del>	205700	
Ŀ	+700301		1	UNIT MIDCOURSE PROP	ΙĮ	u	JPL	MA	R	ì	38		62	, i	205800	
ŀ	+700302		В	CABLE INSTL MCPU		U	JPL	MA	R				62	<u> </u>	206200	
	4700303			FUEL SYS INSTALLATION		Ū		MA	R		1		62	ا ٽ	206300	
ſ	+700304			NITROGEN SYS MIDCOUR		Ū		MA	R			02 !		J	206400	
1	+700305			START SYS MIDCOURSE	1 1	ŭΙ		MA	R			02		ĭ l	206700	
7	+700306			TUBE RESERVOIR OXID		ŭ	JPL	MA	R			091		J		4700304
14	700307	- 1		RESERVOIR OXIDIZER	ιı	ŭ	JPL	MA	R			- 1	62	΄, Ι	212500	
1	700308			PLATE MOUNTING	-	ŭ		MA	R	_			61	<del>- J</del>		
L	700309	l l		BRACKET MTG MCPU		ŭl		MA	R		1.		61	١ -	_015200	4700312

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F	RAWING	LI	S T	. MARINER	R	62	FLI	GHT	Nł	JMERIC	AL			PAGE	40	4-11-6	3
Ī	DRAWING NO.	94. 94.	# :		5	37	tons At a post	-		100 THEU SER.	DESP. DIT.	*1	1448	DRAWING CONTROL STATUS		NEXT ABBEMBLY	
	4700310		П	STRUCTURE ASSEMBLY	Г	U	JPL	MA			38	02	62	J	209900	4700311	٦
Ļ	4700311		Ļ	ENG MIDCOURSE PROPUL	ļ.,	U	JPL	MA			38		62	J		4700305	
	4700312		ΙΑ.	PLATE MOUNTING ASSY		Ü	JPL	MA		1 1	38	10	61	J	211200	4700310	
	4700313		L	BRACKET CONN ELEC	1_	Ų	JPL	MA			38	10	61	J	211500	4700310	
1	4700314			BRACKET CONN ELEC	ł	U	JPL	MA	R		38	10	61	J	211600	4700310	
_	4700315		Ш	BRACKET TANK FUEL	L	U	JPL	MA	R		38	10	61	J	211700	4700310	
ч	4700317			BODY MANIFOLD TANK	Ī-	U	JPL	MA	R		38	11	61	J	219400	4700318	
	4700318			MANIFOLD TANK FUEL	L	U	JPŁ	MA			38	02	62	J	218500	4700319	
	4700319			BLADDER TANK FUEL	Γ	U	JPL	MA	R		38	02	62	J	218300	4700320	
	4700320		L	TANK FUEL ASSEMBLY	L	U	JPL	MA	R		38	02	62	J .		4700321	
	4700321			FUEL SYSTEM ASSEMBLY		U	JPL	MA	R		38	02	62	J		4700303	
	4700322		L	RESERVOIR GN2 WELDMT	L	υ	JPL	MA	R		38	02	62	J		4700323	
	4700323			RESERVOIR GNZ IGNITH	Г	U	JPL	MA	R			02		J		4700326	
	4700324			PRIMER CHAMBER ASSY		υ	JPL	MA	R	1	38			ا ز		4700325	
	4700324			PRIMER CHAMBER ASSY	Γ	U	JPL	MA	R		38		62	J.		4700333	
1	4700324			PRIMER CHAMBER ASSY		U	JPL	MA	R		38			J		4700338	
	4700325		A	VALVE EXPLOSIVE ASSY	t	υ	JPL	MA	R			06		<del>- j</del> -		4700326	
	4700326		A	CARTRIDGE OXIDIZER	1	υ	JPL	MA	R		38			ا ر		4700305	
1	4700327			BLOCK PILLOW		u	JPL	MA			38			J		4700305	
1	4700328			BRACKET	l	ŭ	JPL		R			02		ĭ		4700305	
٦	4700329			SPACER TUBE		IJ.	_	MA			38			J		4700305	
ı	4700330		Н	BRACKET TUBE	ĺ	u		MA			38			ĭ l		4700305	
	4700332		Α	SPIDER TANK NITRO	*	ŭ	JPL	MA				01		<del></del>		4700304	
	4700333		·	VALVE ZWAY NITROGEN		υ		MA			38			j		4700304	
	4700334			FITTING NITROGEN THE	Н	U	JPL	MA			38			J			
	4700335			NITROGEN SYSTEM ASSY		υ	JPL	MA			38			ا		4700335	
	4700336			SHELL TANK NITROGEN	-	5	JPL	MA					62	- 1		4700304 4700304	
	4700337	l		SPACER REGULATOR	ĺi	ŭ	JPL	MA			38						
	4700338			VALVE FUEL 2-WAY ASY	-	Ŭ	JPL	MA				02	62	<u> </u>		4700303	
	4700339			SHELL TANK PROPELLAT		ŭ	JPL	MA			38			-		4700321	
-	4700343			CONTROL SYS ASSEMBLY	-	V	JPL	MA								4700320	
	4700344			MIDCOURSE PROPUL SYS		- I		MA				02		J		4700301	
-	4700346			SHIELD THRM LOW DISK	Н	y					38				221400		
	4700347			FLANGE		U		MA				02		J		4700301	
	4800040	<del> </del>		SUBCHASSIS XPONDER	Н	U		MA				06		J		4700325	,
- 1	4800040			SUBCHASSIS XPUNDER				MA			35		61	J		4300187	
	4800061			SUPPORT RING PRE-AMP	-	<u>u</u>		MA			35			_ J		4300188	
- 1	4800062					U			R			09		J		4800065	
	4800063			COVER PRE-AMPL		U		MA			32			J		4800065	•
		i		ION CHAMB STRUCT ASY	l	U		MA			32			j l		4800065	
T	4800064			NECK CHAMBER		U	JPL	MA	R		32 [	09	61	J I	0345001	4800063	Į

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DRAWING NO.	PASH	1	TITLE	į	2007	VE NOO1		BTIOE	17 1 W	911.		EAE I	CRAWING CONTROL STATUS		MEXT ASSEMBLY	1
1	BQ.		*****				111	Ŕ	THEU DEP.		0.9	41.	STATUS	033100	4100445	+
4800065			TOWLER LIGHT CHAPIDER	*	U	JPL	MA						1		4800069	1
4800068		Α	PC PRE-AMPLIFIER		U	JPL	MA	R			07				4800065	
4800069		i	CB1 PRE-AMPLIFIER		U	JPL	MA	R			07		ر ا		4400204	
4800076			ANGLE CONNECTOR		U	JPL	MA	R			09		ļ.,			
4800078			CLAMP WIRE	*	U	JPL	MA	R				62	J		4400204	ŀ
4800078		A	CLAMP WIRE	*	Ų	JPL	MA	R				62	J		4500121	4
4800078		A	CLAMP WIRE	*	U	JPL	MA	R			12		J		4600333	
4800078		la.	CLAMP WIRE	*	ļυ	JPL	MA	R				62	J		4800297	
4800078		A	CLAMP WIRE	*	Ū	JPL	MA	R		35	12	62	J		4900502	
4800078		A	CLAMP WIRE	*	lυ	JPL	MA	R		35	12	62	J		4901002	
4800080		Â	CLAMP THERMOCOUPLE	*	ΙŪ	JPL	MA	R		35	12	62	J		4400204	
4800080		Ā	CLAMP THERMOCOUPLE	*	Ιū	JPL	MA	R		35	12	62	J		4500121	
4800080		À	CLAMP THERMOCOUPLE	*	ΙŪ	JPL	MA	R		35	12	62	J		4600333	
4800080		IA	CLAMP THERMOCOUPLE	*	U	JPL	MA	R		35	12	62	J	199200	4800297	
4800080		12	CLAMP THERMOCOUPLE	*		JPL	MA	R		35	12	62	J	202700	4900502	
	ļ	10	QUARTZ INTEGRAT ASSY		Ιŭ	JPL	MA	R		32	109	61	J	035000	4800065	
		╁	HEADER BASE	-	tŏ	JPL	MA	R				61	J	035700	4800083	
		1	RING CLAMPING SEAL	ł	Ιŭ	JPL	MA					61	Ü	035800	4800065	
		╀	SPACER	⊢	tü	JPL	MA				08				4800290	
4800091	ŀ	1		l	١ŭ	JPL					108		1		4800290	
4800092		+-	WASHER SHOULDER	<del> </del>	ᄬ	JPL	MA				0.8		J		4800290	
4800093			WASHER	1	1 -		MA					62	1 1		4800290	
4800096		1-	WASHER	┞	U	JPL	MA			32		162	J		4800268	
4800250		В	SWEEP AMP SCHEMATIC	1	U	JPL			l			162			4800365	
4800250	L	В	SCHEMATIC SWEEP AMPL	┡	Įυ		MA								4800366	
4800250		В	SCHEMATIC SWEEP AMPL	1	U	JPL	MA					62			4800263	
4800251	1	C	SCHEMATIC DIAG	L	Įυ		MA				0.5				4800296	
4800252		H		*	١,٠	JPL	MA			35		62				
4800252	PL	F	SCI PWR SWITCHING	*	-1-				<u> </u>		05				4800252	
4800253	1	Н	SCI PWR SW SCHEMATIC	*	U		MA			35	09				4800252	
4800254	l	A		*			MA		ļ	35		62			4800252	
4800255	T	C	PC CB1 SCI PWR SW	*	1.	1				35				188918		
4800256	1	A	REED CAPACITOR	L	_Ju		. MA		L	35					4800261	
4800257	1	Ā	MAGNETMETER SUPP ASY	Ţ	Įυ					32	04				4100304	
4800260	1	A		L	Įι			R	L	32					4800261	
4800261	<b>†</b>	Τē		Γ	ī					35	0.5				4800296	
4800262		IÃ	RADIOMETER CHASS ASY	1	Įυ	JPL	MA		L	35					4800300	
4800263	PL	TA	PROGRAMMER SOL PLAS	T	Ū	JPL	. MA	R		32		62			4800263	
4800263	-	C	1	1	Ιu	JPL	MA	R.		35	104	162	<u> </u>		4800296	
4800264	+		PROGRAMMER SUBCHASS	T	Τī	JPL	MA	R		32	104	162	J	196100	4800263	3
J 4800265	l		CB1 PC PROGRAMMER	1	- L				Ì	132	05			196400	480026	
DENOTES CHANGE	1			_	- 1-										JPL 0513 JU	IN

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) [	AWING	LI	S T	MARTAER	•	, ,		, ,	.,,,							<u></u>	_
	DRAWING NO.	PASH	15	TITLE	4	1	V5 8848		-	17 FM	411F. 977.		16	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
:		**			Ľ	-		MA	IIAL D	**** ***		0.5	62	J	196500	4800263	1
J	4800266			CB2 PC PROGRAMMER		U	JPL JPL	MA			32	04	62	J		4800296	
2	4800268			23A3 SWEEP AMPL		Ü		MA			32	04	62	- j		4800268	
D	4800269		A	SUBCHAS SWEEP AMP	1	1		MA				12		Ĵ		4800365	
J	4800270		┺	CB1 PC SWEEP AMPLIF	-	쁜		MA			32	12	61	J		4800366	
J	4800271		1	CB2 PC SWEEP AMPLIF	ĺ	u		MA				12		_		4800257	
C	4800272		<del>ل</del> ــــــــــــــــــــــــــــــــــــ	COVER MAGNETOMETER	├	밥		MA			32		61	<del>- 5</del>		4800290	
	4800273	1	IA.	SPACER SOLAR CORPUS		1-		MA			32		61	٦		4800290	
	4800274		┶	STUD SOLAR CORPUSCUL	⊢	U		MA			32	7.1	0.	<del>5</del>		4800290	
-	4800275		1_	GROUND PLANE SCRE	1	ľ		MA		Ì	32	12	61	ı ,		4800290	
	4800276		<u> B</u>	GROUND PLANE ENTRAN	⊢	14				<del> </del>		12		<del>-</del> 5		4800290	
	4800277			COLLECTOR SOLAR CORP		Įυ	JPL	MA						٦		4800290	
Ç	4800278		IA.	SUPPRESSOR SOLAR COR	₽.	Ų			R				61	<del></del>		4800290	
C	4800279	1	1	INSULATOR DEFLECTION	1	U	JPL	MA				11	1	-		4800290	
C	4800280	L.	1A	GROUND PLANE EXIT	₽	Ų	JPL		<u>R</u>		32		61	<u> </u>		4800290	
	4800281		A		ı	U	JPL					12		-		4800290	
	4800282			INSULATOR CHANNEL	L	U	JPL	MA		ļ				<u> </u>		4800290	
C	4800283			INSULATOR CHANNEL	1	U	JPL	MA			32	11	61	1		4800290	
C	4800284			INSULATOR SUPPRESSOR	↓_	ļυ				<b>↓</b>		11		J		4800290	
D	4800285		A	SHIELD COLLECTOR	1	Įυ	JPL	MA		i	32		61	,		4800290	
D	4800286		┸	PLATE GROUND PLANE	1	ļΨ	JPL	MA		<b>↓</b>	32		61			4800290	
D	4800287		1	PLATE GROUND PLANE		ĮΨ			R			11		J		4800290	
D	4800288			DEFLECTOR PLATE ASSY	1_	JU			R	<b>↓</b>		11		J		4800290	
D	4800289	Γ	Т	DEFLECTOR PLATE ASSY	1	Ų		MA		1	32		61	ا ب		4800290	
D	4800290	1	Α	DEFLECTION PLATE ASY	┸	U		MA		L			61	<u> </u>		4800296	
D	4800291		Α	20A21-20A24	ı	U		MA		ľ	35		61	J			
D	4800293		A		L	Įυ		MA		ļ	35		61	<u> </u>		4800296	
J	4800296		C	SCIENTIFIC ELEC ASSY		U				1	32		62	J.		4900501	
J	4800297		B		L	Ų					32		62	J		4800296	
D	4800298		В			U		MA		1	35		61	J		4800296	
J	4800300			RADIOMETER ASSEMBLY	1	ĮŲ					32		62			4800408	
C	4800304	1	1	WAVEGUIDE SUBASSY	1	Įυ					32		62	J		4800300	
Č		1		WAVEGUIDE SUBASSY 22	L	۷,		_ M/			32		62	J		4800300	
c				WAVEGUIDE SUBASSY 15	П	Įι	I JPL				32		62			4800300	
Č		}		WAVEGUIDE SUBASSY 15	L	1			<u> </u>		32		62			4800300	
-				WAVEGUIDE SUBASSY 22		L					32		62			4800300	
Ò			A	BRACKET ASSY DETECT	1	Įι					32		61			4800300	
7			A		I	l					32		61	1		4800300	
Ò			İ	V-BLOCK ASSY RADIOM	1	L					32		61	J		4800300	
7				ANGLE CONN MOUNTING	T	T	JPL				32		61	J		4500121	
6			-	ANGLE CONNECTOR	į	I٤	JPL	M.	A R	1	35	11	61	1 J	1 183000	4600333	ۯ

	RAWING		٠.	CALIFORNIA IN MARINER	ISTI R	6 2	FLI	c <b>hnol</b> GHT	OG1 NI	Y, PASADI JMERI (	ENA, 4 CAL	CALIF.		PAGE	43	4-11-6	_
_	AWING	L 2	3	l		_	<del>,</del>									7 11-0	_
7	DRAWING NO.	80.	3	1	1	3	COOE	94.04	RAIO	17 FB 41 F.	8836. 817.		TR.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
	4800314		Ι.	ANGLE CONN MOUNTING	1	Ų	JPL	MA	R		32	11	61	J	199300	4800297	+
	4800326		IA.	RISEB CLAMP WIRE NO2	*	ļυ	JPL	MA	R	1	35	12	62	Ĵ		4800297	
	4800334		IA.	REFERENCE HORN	*	Ü	JPL	MA	R		32	09	62	J		4800300	
	4800335		ĮĄ.	SUPPORT RADIOMETER	┸	ļυ	JPL	MA	R		32	12	61	Ĵ		4800300	
	4800338		A	SUBCHASS PWR SUPPLY	ı	U	JPL	MA	ĸ		32	07	62	J		4800339	
	4800339		Α	PWR SUPP SUBAY ENV	L	U	JPL	MA	R		32	07	62	' J		4800300	
	4800340		ı.	SUBCHASSIS DATA COND	Т	U	JPL	MA	R		35	11	61			4800298	
	4800341		C	ELECTROMETER SCHEM	L	U	JPL	MA	R	1	32	04	62	أد		4800261	1
	4800341		l	SCHEMATIC DIAG	Π	U	JPL	MA	R		35	05	62			4800396	†
	4800341		┖	SCHEMATIC DIAG	L	Ų	JPL	MA	R		35	05	62	Ĵ		4800402	ı
	4800342			CHAS PARTCL FLUX DET	Г	ΙŪ	JPL	MA	R		32	02	62	J		4800352	†
	4800343		A	COVER THERMAL PARTCL	1	U	JPL	MA	R			07	62	J.		4800352	ı
	4800344	PL	IC.	CB1 PART FLUX DETECT	П	U	JPL	MA	R				62	J		4800344	1
_	4800344		Α	CB1 PART FLUX DETECT		υ	JPL	MA	R		- 1	- 1	62	J I		4800352	I
	4800345		В	PART FLUX DET SCHEM	1	U	JPL	MA	R			<u> </u>	62	- j		4800344	1
	4800345		В	SCHEMATIC		Ū	JPL	MA	R			- 1	62	ĭ l		4800352	
	4800346			MULTI-OUTPUT TUBE	t	Ū	JPL	MA	ie 1			01	62	J I		4800352	4
	4800347		Α	SHIELD STAINLESS	ļ	Ιū			κĺ	1	(		62	Ĵ		4800352	Į
	4800348		A	END SENSITIVE 213 GM	*	Ŭ	JPL		R				62	J		4800352	1
1	4800349		A	SHIELD BERYLLIUM	1	Ιŭ	JPL		Ŕ	ì		- 1	62	,		4800352	
: [	4800350			GUARD DETECTOR TUBE		U	JPL		R	i		01		J			1
Ш	4800351		Α	PC1 PARTICLE FLUX	ľ	ŭ.	JPL		R				62	١ ١		4800352 4800344	ı
ijŀ	4800352		Α	PARTICLE FLUX DETECT	_	IJ	JPL	_	R				62	J			ł
:  -	4800356			WAVEGUIDE SUBASSY		ŭ	JPL		R				62	j		4100445	l
Ī	4800357			WAVEGUIDE SUBASSY	Т	u.			Ŕ				62	<del>-</del> 5		4800300	ł
ŀ	4800358	i	A.	ANGLE CONN MOUNTING		ŭ			ŘΪ				62	١ ،		4800300	١
1	4800359			ANGLE CONN MTG RADIO	┢	ŭ			R			-	61	<del></del>		4800300	ł
1	4800360	- 1		STRAP NOISE SOURCE		ü	1		R			•	61	J	066900		l
1	4800361			ANGLE COUPLER MOUNT	-	U			R			11				4800300	ł
	4800362		A	BRACKET COUPLER MTG		ŭ			R				61	J		4800300	I
1	4800363		A	CLIP WAVEGUIDE RADIO		Ŭ			Ř				61	<del></del>		4800300	ļ
1	4800364			BRACKET TAPER MOUNT		ŭ	1		R			!	61	١ .	067300		
1	4800365		-	CB1 ASSY SWEEP AMPL	-	ŭ			R			12			067400		1
	4800365	∍L	- 1	CB1 SWEEP AMPLIFIER		ŭ			Ŕ					ا ب	197100		
	4800366			CB2 ASSY SWEEP AMPL	Н	ř			R			12	61	J	197500		:
		ا ا		CB2 SWEEP AMPLIFIER		ŭl		MA I			32			-	197600		İ
	4800367			BRACKET TRANSFORMER	-	Ü		MA						<u> </u>	197900		ŀ
	4800368			CLIP RF CONNECTOR		ان		MA I			32			J	198000		
-	4800369	$\rightarrow$		CHOPPER DRIVE ASSY		_			_		_		62	<del></del>	067500		ļ
	4800370			LONG RANGE EARTH SEN	1	11	JPL	MA I	₹		34	06 l	b2 [	J	051800	4800370	

וכ	RAWING	i LI	<b>S</b> 1	CALIFORNIA IN: MARINER F								LALIF		PAGE	44	4-11-6
1	DRAWING NO.	940E 96.	15		4	3	C008	-	BELLA	## FOR	2107. 014.	10.	744 E	DRAWING CONTROL STATUS		MEXY
В	4800371		Т	DISARMING CONN SUBAS	T	Ü	JPL	MA			32	12	61	J	198100	4800268
	4800372	<u> </u>	┺	TRANSFORMER SWEEP AM	L	Ų	JPL	MA			32	12	61	J		4800268
C	4800375		1	ACTUATOR WIRING		U	JPL	MA			35	03	62	7	062100	4500122
J	4800376	L	В	SHIELD THERMAL ASSY	*	U	JPL	MA	R		32	09	62	J.	067600	4800300
J	4800377	l	ı	15.86 22KMC CONT DWG	l	υ	JPL	MA			32	09	62	J		4800300
<u>D</u>	4800378	<u> </u>	ـــ	22KMC SW ASSY ENV	L	U	JPL	MA	R		35	06	62	ر	068000	4800300
D	4800379			15KMC SW ASSY ENV		U	JPL	MA	R		35	06	62	J		4800300
-	4800380		A	ENV ELECT UNIT SUBAY	*	Ų	JPL	MA	R:		35	09	62	J	068200	4800300
	4800381	i	1	PRE-AMP SUBASSY ENVL		U	JPL	MA	R		32	08	62	J	068400	4800300
<u>_</u>	4800382		<b>1</b> _	DIRECTIONAL COUP ENV	L	U	JPL	MA	R		35	06	62	_ J	068500	4800300
В	4800383	l .		DETECTOR ASY CONT DW		U	JPL.	MA	R		32	09	62			4800300
_	4800386	L_	Ш	CONT DWG 15KMC FILTR	_	Ų	JPL	MA	R	- 1	32	09	62	J		4800300
C	4800387		П	WAVEGUIDE SUBASSY 15		U	JPL	MA	R		32	01	62	J		4800300
	4800388			CONT DWG 22KMC FILTR		υ	JPL	MA	R	!	32 l	09	62	Ĵ		4800300
3	4800389		1	TERMINAL COLLECTOR	Г	U.	JPL	MA	R			12	61	j		4800290
	4800391			SW ASSY ELECTROMETER		U	JPL	MA	R			12	61	ز		4800261
5	4800392			SUPPORT ASY VIB REED		Ù		MA	R		_	01	62	<u>J</u>		4800256
3	4800393		П	BUSHING VIB REED CAP		Ü	JPL	MA	R			01	62	J.		4800256
5	4800394			VIB REED CAPACITOR		Ŭ		MA	R				62	J		4800256
	4800395			WAVEGUIDE ASSY 22	i	Ü	JPL	MA	R			01	62	ĭ		4800300
$\sim$	4800396		A	CB1 PLASMA ELECT		υI		MA			_	-	62	J		4800261
١.	4800396	PL	la I	CB1 PLASMA ELECT		ii l			R			05	62	J		4800396
П	4800397		A	CB1 PC PLASMA ELECT	_	ŭ		MA					61	J		4800396
۱,	4800398			CB2 PLASMA ELECT		ŭ		MA				04		J	193400	
		Pt	+=-1	CB2 PLASMA ELECT	-	ŭ		MA	R				62	J		
ı	4800399	_	1111	CB2 PC PLASMA ELECT		ŭ	1		R			04		-		4800398
	4800400		۳	CB3 ASSY PLASMA ELEC		۲		MA	<del>R</del> T			12		_ J		4800398
	4800400	Ρí		CB3 ASSY PLASMA ELEC	-	ŭl	1	MA					- 1	J.		4800261
	4800401			CB3 PC PLASMA ELECT	-	밁		MA	_				61	_ J		4800400
	4800402			CB4 PLASMA ELECT	i	- 1		, .	R			1	61	J		4800400
-	4800402	Di		CB4 ASSY PLASMA ELEC		Ų.		MA.	R				62	<u> </u>	194100	
ì	4800403	r L		CB4 PC PLASMA ELECT	- 1	V.		MA					62	J		4800402
H	4800404					빗		MA.	R.			<u>04</u> į	62			4800402
- 1	4800405			SUB-CHASS UPPER PLAS		7 1		MA	R				61	J		4800261
	4800405		A	WASHER SHOULDER	$\rightarrow$	V.		MA	R	+			62		194700	
	4800406			SHIELD CHASS ASSY		۷l		MA					62	J		4800297
	4800407			TOP SHIELD SCI EQUIP		빞		MA					61	J	200300	
- 1				RADIOMETER INSTALL	•	u۱		MA	R				62	J		4100310
	4800409			SHIM SWIVEL JOINT		u		MA	R I		-		62	J	071400	4800408
	4800410			SHIELD SUN ACTUATOR				MΑ	R			01	62	J	071500	4800408
П	4800411		L	SPACER SUN SHIELD	- [	uТ	JPLI	MA	RΙ	- 1	35 I	nı!	62		071700	4800408

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R							*****		SE POR	*11.0	F1:1461	DRAWING	1	NEXT	Ţ
١	DRAWING HO.	BO.	3 5	TITLE	5	3	C008	SENIL	THEU SEP	PIT	947 E	CONTROL STATUS		ASSEMBLY	
1	4800414			COVER WELDMENT REED	Г	U	JPL	MA R			12 61	J		4800261	
	4800416			WASHER SHLD INSULATE	L	Ų	JPL	MA R		32	01 62			4800300	
1	4800418			TRANSFORMER SHIELD	l	U	JPL	MA R	1		01 62	J		4800261	
١	4800420			INSULATOR 22KMC DET	L.	U	JPL	MA R		32		J	069200	4800300	
t	4800421			INSULATOR 15KMC DET		U	JPL	MA R		32	01 62	J		4800300	
ı	4800422		1	CB2 CB3 PARTICLE FLX		U	JPL	MA R		3.2		j		4800352	
t	4800423			BRKT TUN FORK RADMIR	Г	Ū	JPL	MA R		32	02 62	J	069400		
ı	4800424		В	TUNING FORK INSULAT	*	U	JPL	MA R		32	09 62	J		4800300	
t	4800427		T	COVER HORN RADIOMETR	Γ	U	JPL	MAR		32	05 62	J		4800376	
١	4800428		1	COVER PW CONN RADMIR		ļŲ	JPL	MA R		32	05 62	<u> </u>		4800300	
t	4800429			COVER SIGNAL RADIMTR		U	JPL	MA R		32	05 62	J		4800300	
I	4800432		1	STUD RADIOMETER	1	U	JPL	MA R		32	05 62	J _		4800300	
t	4800436		c	SCHEMATIC	*	Ū	JPL	MA R		32	07 62	J		4800380	
ļ	4800436	PL	lc	MICROWAVE RADIOMETER	*	U	JPL	MA R	1	32	10 62	J		4800436	
t	4800437		Ť	INSULTR SUBCHAS SOLR	Т	Īΰ	JPL	MA R		32	04 62	J	190000	4800260	
ı	4800438			INSULATOR SUBCHASSIS		lυ	JPL	MA R	l	32	04 62	J	190100	4800260	
	4800439		╆	INSULATOR SUBCHASSIS	T	tù	JPL	MA R	<b>—</b>	32	04 62	J	190200	4800260	
	4800440		1	INSULATOR SUBCHASSIS	1	Ιū	JPL	MA R		32	04 62	J	196200	4800264	,
	4800441	-	+	INSULATOR SUBCHASSIS	t-	Ιŭ	JPL	MA R	i —	32	04 62	j	196300	4800264	,
	4800442	1	1	INSULATOR SUBCHASS	ı	lŭ	JPL	MA R		32	04 62	ر ا	196900	4800269	ì
	4800443		$^{+}$	INSULTR SUBCHAS SWP	T	Ιŭ	JPL	MA R		32	04 62	J	197000	4800269	,
ı	4800477		1	TERMINAL BOARD	1	Ιŭ	JPL	MA R		35	25 62	L.J.		4800261	
	4800477		+-	TERMINAL BOARD	1	ľű	JPL	MA R	1	35	05 62	Ĵ		4800261	
	4800478		1	TERMINAL BOARD	1	Ιŭ	JPL	MA R	1	35	05 62	1 1		4800261	
	4800478		┰	TERMINAL BOARD	+	Ιŭ	JPL	MA R		35	05 162	Ĵ	195300	4800261	
	4800479			TERMINAL BOARD		Ιŭ	JPL	MA R			05 62	1		4800261	
	4800489	<del></del>	+	INSULAT BD SUBASSY	t	Ιŭ	JPL	MA R	<del> </del>	32	07 62	J		4800492	
1	4800490		1	TH CURRENT LMT SUBAY		lu	JPL	MA R	1	32			064800	4800492	2
1	4800491		+-	BD CURRENT LMT SUBAY	1	Ü	JPL	MA R	1	32		<u> </u>	064900	4800490	j
	4800492	، ما	1	CB CURRNT LMT SUBASY	1	Ιŭ	1	MA R		132			065000	4800492	2
	4800492	-	+-	CB CURRNT LMT SUBASY	+	Ú	JPL	MA R		32		j	064600	4800496	٥
	4800493	1	1	HEAT SINK SUBASSEMBY	1	Ιŭ		MA R	1	32		J		4800496	
	4800494	<del> </del> -	┰	HEAT SINK SUBASSEMBY		Ιŭ	JPL	MA R	1	32	+=	T	065300	4800496	٠
	4800495		i	SUBCHASS CURRENT LMT		lŭ	1	MA R	1	32				4800496	
_	4800496	$\vdash$	+-	CURRENT LIMIT SUBASY		Ιŭ	JPL	MA R		32				4800339	
į	4800496	١,,		CURRENT LIMIT SUBASY	1	Ιŭ		MA R		132				4800496	
_	4800496	<u></u> -	+	SCHEMATIC DIAGRAM	+-	10	JPL	MA R		35				4800492	
	4800497	1	1	CURRENT LIMITE SCHEM	1	U	JPL	MA R		132				4800496	
		├-	+-	XFORMER SUBASSY	+	Ηü		MA R		32		Ĵ		4800496	
	4800501	1			1	10	1 '	MA R		32		1 1	065500		
DI	4800502			BUSHING SUBASSEMBLY		_1,0	JUPL	1114 5		126	1211146		1 00000	JPL 0513 JU	

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R	AWING	L1	s t	MARINER F	₹ (	52	FLIC	SHT	ΝU	MERIC	AL			PAGE	46	4-11-63	٥
			1	TITLE	;	3	*****		****	11 FDR	PESP.	P111		SRAWING		NEXT ASSEMBLY	
:	DRAWING NO.	80.	9 1		Ľ	_	€00€	\$4.0		THES SEE.			10.	STATUS	0/5/00		4
П	4800503			BUSHING SUBASSEMBLY	l	U	JPL	MA	- 1			07		J.		4800495	
	4800504			INSUL HEAT SUBASSY	L	U	JPL	MA			32		62			4800496	
,	4800505			INSULT HT SINK SUBAY		U	JPL	MA	R		32		62	J.		4800496	
,	4800532		'	INSULATION BD SUBASY	L	U	JPL	MA	R		32		62	_ J		4800496	
3	4800533		П	TB CURRENT LMT SUBAY	ı	U	JPL	MA			32		62	J		4800496	
)	4900033		Α	SUBCHASS MACHINED	_	U	JPL	MΑ					62	J		4600329	
	4900039		1	SUBCHASSIS MACHINED	1	Ų	JPL	MΑ		i	35	1 -	61	J		4600308	
	4900039		1	SUBCHASSIS MACHINED		U	JPL	MA			35		61	J		4600309	
	4900039		1	SUBCHASSIS MACHINED	I	U	JPL	MA			35		61	J		4600310	
	4900039		1	SUBCHASSIS MACHINED	1_	U	JPL	MA	R		35	07		J		4600311	
ī	4900225		Т	CABLE INSTL 4A11	*	U	JPL	MA	R		34	12		J		4100306	
ı	4900226		1	CABLING -X AXIS 4A12	*	U	JPL	MA	R		34		62			4100306	
5	4900227		В	SCHEMATIC DIAG 4A11	<b>*</b>	U	JPL	MA	R	i	34	12	62	J		4900225	
	4900228		В	SCHEMATIC DIAG 4A12	۱*	U	JPL	MA	R		34	12	62	J		4900226	
3	4900229	_	A	2W1 COAX CABLE ASSY	T	ΙŪ	JPL	MA	R		35	03	62	J		4900225	
3	4900230		A	2W2 COAX CABLE ASSY	1	lυ	JPL	MA	R	<b>!</b>	35	03	62	J	005900	4900225	_
;	4900231	<del>                                     </del>	+	COAX	1	Ū	JPL	MA	R		35	01	62	J	006000	4900225	
3	4900232	1	1	2W4 COAX CABLE ASSY		Ιū	JPL	MA	R		135	101	62	J	075400	4900256	
3-	4900233		+	2W5 COAX CABLE ASSY	†-	ŤÜ	JPL	MA	R		35	101	62	J	075500	4900256	,
3	4900234		İ	2W6 COAX CABLE ASSY		Ĭ.	JPL	MA	R		35		62	J	0.75600	4900256	Ł.
-	4900236		+	9W10 INTERCONN SUBAY	T	lu	JPL	MA	R		35	0.5	62	J	220400	4700302	
-	4900237			9W11 INTERCONN SUBAY	ļ	Ĭ	JPL	MA	Ř		35	05	62.	J	220500	4700302	
5	4900237	$\vdash$	+-	9W12 INTERCONN	+-	ŭ	JPL	MA			35		62	J	220600	4700302	Ī
	4900239		1	9W29 CABLE ASSEMBLY	ı	Ĭŭ	JPL	MA		ł	31		62	Ĵ	070100	4800300	,
<u>_</u>	4900239		+	9W31 CABLE ASSY	✝	Ιŭ	JPL	MA		1	135		62	J		4800300	
	4900242	1	1	9W34 CABLE A	ı	Ιŭ	JPL	MA	R		35		62	J	070300	4800300	,
<u>2</u>	4900242	├	+	CABLE ASSY 9W32 COAX	+	+-	JPL	MA			35		62	j	070900	4900247	į
3			ļ	CABLE ASSY 9W33 COAX		1~	JPL	MA	R		35		62	j	071000	4900247	,
-	4900244	-	+-	CABLE ASSY 9W35 COAX	*	+~	JPL	MA		_	135		62		071050	4900247	į
3	4900245		١.			10	JPL	MA			34		62	.1		4800300	)
<u>ب</u>	4900247		A	WIRING 4A11 SOL PANL	+	Tu	JPL	+	R		34		62	J		4900225	
J	4900248	1		WIRING SOL PAN 4A12	*	10	JPL	MA		İ	35		62	J		4900226	
	4900249	<b>+</b>	- { -		*	+				1	35	-	62			4900256	_
J	4900252	1	ļ	9WI CABLE INSTL	1.	1 ~	JPL	MA			35		62			4900252	
J	4900253	ļ	- 1	9W1 RING HARNESS	+	+×		-		<del> </del>	34			<del></del>		4100320	
В	4900254	1		GROUND WIRE ASSEMBLY		Į.				1	35		62	ر		4900256	
0	4900255	1_		WIRING HARNESS 9W21		Ų				+	31		6.2	<u> </u>		4100310	
J	4900256	1	1	CABLING INSTALLATION	1*	10	1			1		0.1	0.5			4100400	
В	4900257	.↓	4	GROUND WIRE ASSY	+	16	JPL			<del> </del>	31	+, ,	2 -	<u> </u>		4900256	
J	4900258		Α	WIRING HARNESS 9W2	*	-1~					3.5			J			
J	4900259	ļ		WIRING HARNESS 9W3	*	U	JPL	MΔ	R		135	111	62	<u> </u>	1 010000	4900256	

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) F	RAWING	L I	S 1	JET PR CALIFORNIA IN MARINER						, PASAD		ALIF.		PAGE	47	4-11-6	
Ī	DRAWING NO.	941H BO.	g 5	TITLE	ŧ	3	VEMPOR COSE	\$1	BAJO!	SE 708 1 174 M	SCIP, DIV.		145 E 17 E	DRAWING CONTROL STATUS		NEXT ASEMBLY	7
J	4900260		Т	SPACECRAFT CABLING	*	U	JPL	MA	R		35	11		J	076100	4900256	_
<u> </u>	4900261		L	WIRING HARNESS 9W4	*	U	JPL	MA	R		35	11	62	J	076200	4900256	
J	4900262		i	9W5 WIRING HARNESS	T	U	JPL	MA	R		35	-		0		4900256	
_	4900263		L	WIRING HARNESS 9W6	*	U	JPL	MA	R		35	11	62	J		4900256	
١,	4900264			WIRING HARNESS 9W7	*	U	JPL	MA	Я		35	11	62	J		4900256	
,	4900265		l	WIRING HARNESS 9W8	*	U	JPL	MA	R		35		62	Ĵ		4900256	
	4900266		Π	WIRING HARNESS 9W9	*	U	JPL	MA	R		35	11	62			4900256	
	4900268		ľ	WIRING HARNESS 9W20	*	U	JPL	MA	R		35	11	62	Ĵ		4900256	
	4900269		Г	WIRING HARNESS 9W22	*	Ū	JPL	MA	Ŕ		35	11	62	J		4900256	
	4900270		L	WIRING HARNESS 9W23	*	u	JPL	MA	R		35	11	62	j		4900256	
	4900271		Г	9W1 TB1 TB ASSEMBLY	*	V	JPL	MA	R		35	11	62	J		4900252	
	4900272		1	9W40 WIRING HARNESS	*	U	JPL	MA	R		35	11	62	ز		4900252	
	4900213		Г	WIRING HARNESS 9W14	*	U	JPL	MA	R				62	j		4900256	
	4900274		l	WIRING HARNESS 9W24	*	U	JPL	MA	R	ļ			62	.i		4900256	
	4900276			S/C CABLING FLOW DGM	*	Ū	JPL	MA	R				62	<del></del> j	0	.,002,0	
	4900277		l	GROUNDING DOM	*	lΰ	JPL	MA	R		35		"	ō			
Ī	4900299		В	ENVL 27A1 INFRA RED	*	U	JPL	MA	R			09	62	<del>-</del> j	071200	4800300	
	4900300		Α	TROUGH SECTION ASSY	*	υ.	JPL	MA					62	Ĵ		4900313	
1	4900300		Α	TROUGH SECTION ASSY	*	Ū	JPL	MA	R			12	62	J		4900314	
١	4900300		Α	TROUGH SECTION ASSY	<b>!</b> *	1.1	JPL	MA	R	ł		12	62	, ,		4900314	
1	4900300		Α	TROUGH SECTION ASSY	*	Ŭ		MA					62	J		4900316	
1	4900301		Α	GUSSET TROUGH	*	Ü	JPL		R	1			62	ĭ	075732		
7	4900301		A	GUSSET TROUGH	*	U	JPL	MA	+			_	62	j		4900311	۰
١	4900301			GUSSET TROUGH	*	ŭ	JPL	MA					62	j		4900312	
1	4900301		A	GUSSET TROUGH	*	ŭ	JPL		R				62	<del>y</del>		4900314	۰
ı	4900301		Α	GUSSET TROUGH	*	ŭ		MA		- 1		12	62	,		4900314	
7	4900301		A	GUSSET TROUGH	*	ŭ		MA				12				4900315	
1	4900302		A	SHIM TROUGH HARNESS	*	ŭ		MA					62	٦		4900318	
1	4900303		A	STIFFENER TROUGH	*			MA					62	<del>y</del>		4900318	
ı	4900304			HANGER TROUGH		ŭ		MA					62	ĭ		4900318	
1	4900305		Α	TROUGH SECTION ASSY	*	Ü	JPL	MA					62	J		4900318	
1	4900307			STRAP TROUGH HARNESS		ŭ	JPL	MA	R			- !	62	ŭ l		4900318	
1	4900308		Α	CONNECTR BRKT TROUGH	*	ŭ		MA	R				62	J		4900313	
ļ	4900308			CONNECTR BRKT TROUGH	*	ŭ			R				63	J	075770		
	4900309			TIE PLATE TROUGH	*	ŭ		MA					62	j	075748		
1	4900310			GUSSET TROUGH	*	ŭl		MA			35		62	J	075734		
_L	4900311		1., 1	TROUGH SECT ASY BAY6		Ü	JPL		R				62	<del></del>		4900311	
- 1	4900312			TROUGH SECTION ASSY		ŭ	- 1	MA	- 1				62	-			
	4900313			TROUGH SECT ASY BAYS.		핅			R		35		_	<u> </u>	075736		
	4900314		Â	TROUGH SECTION ASSY		ül	1	MA	R		35   35		62	J	075744		
	NOTES CHANGE TO				-	UI	JYL	~1A	ĸ		20 I	14!	62	J 1	U/5/56	4900305	

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F	AWING	LI	<b>S</b> 1	. MARINER	R	62	FLI	GHT	Νŧ	JMERIC	AL			PAGE	48	4-11-
:	DRAWING NO.	PATH	15	TITLE	1	CLASS	FERRER	T		41 FO4	attr.	1 "	EAST	DRAWING	I	HEYY
_		<b>80.</b>	1:-		.ł		Code		HAL	7HEU 519.	DIV.	HD.	71.	DRAWING CONTROL STATUS	1	ASSEMBLY
١	4900315		Α	TROUGH SECT ASSY	*	U	JPL	MA	R		35	10	62	Ĵ	075764	490030
Ц	4900316		IA.	TROUGH SECTION ASSY	*	U	JPL	MA	R		35	12	62	J	075772	490030
	4900318		Α	GUSSET TROUGH	*	U	JPL	MA	R		35		62	J	075718	490025
	4900319		Α	GUSSET TROUGH	*	U	JPL	MA	R	L	35	12	62	ن	075754	490031
	4900320		Α	GUSSET TROUGH	*	U	JPL	MA		'		12	62	Ĵ	075742	490031
	4900321		Α	CONNECTOR BRKT LEG A	*	U	JPL	MA			35	12	62	J	077400	490025
	4900322		Α	CONNECTOR BRKT LEG C	*	U	JPL	MA			35	12	62	J	077500	490025
	4900323			SUPT STRAP CABLE CLD	*	×	JPL	MA				12	62	J	077510	490025
	4900501		C	PACKAGING ASSEMBLY		U	JPL	MA			35	02	62	J	077600	410031
	4900502		ĮΒ	CHASS ATTITUDE CONT	1	U		MA	R		34		62		200400	490050
	4900503			HINGE PIN	1	U	JPL	MA					61	J		440020
	4900503		ļ	HINGE PIN	上	ļu	JPL	MA	R		35		61	<u> </u>		450012
	4900503			HINGE PIN	1	U		MA					61	J		460033
	4900503		L-	HINGE PIN	1	U		MA			35		61	J		480029
	4900503			HINGE PIN ELECT BOX	1	U	JPL	MA	′''		35		61	J	202800	490050
	4900504			HINGE INSTALLATION	L	U		MA					61	J j		490050
	4900505		Α	BRACKET DA-15 CONN	*	U	JPL	MA	R		35	12	62	J	203000	490050
	4900506		L.	SHIELD CHASSIS	┖	U	JPL	MA	R		34	10	61		203100	490050
	4901000			SUBCHASSIS MAG EL	*	U	JPL	MA	R		32	11	61	J	198510	480029
	4901001		В	SHIELD CHASS ASSY	*	u	JPL	MA	R		35	12	62	ا ر	203200	
	4901002		i	SOLAR CELL ASSY		U	JPL	MA	R		35	02	62	J	203500	
_	4901003		L.	TERMINAL BD SOL CELL	_	U	JPL	MA	R		35	02	62	J		4901002
-			Ц						_							
	F100	-2		BISTABLE MULTIVÍB	*	U	ML	MA	R		32		-	- 0	198538	50243
	F100	-2		BISTABLE MULTIVIBR	*	Ų	ML	MA	R		32	- 1		ō I	198578	50243
Т	F100	-2		TRIGGER MODULE	*	U	ML	MA	R		32	-		0	198579	50243
: [	F100	- 2	1	BISTABLE MULTIVIBR	*	U	ML	MA	R	(	32	į	-	ō	198601	50243
1	F201	- 2		MONOSTABLE MULTIVIB	*	U	ML	MA	R		32			0	198561	50246
Ц	F400	-2		TRIGGER MODULE	*	U.	ML	MA	R		32	i		0	198539	50243
ч	F400	-2	ŀ	TRIGGER MODULE	*	υ	ML .	MA	R		32			0	198602	50243
1	F502	-3		DUAL DC INVERTER MOD	*	U	ML	MA	R		32	,	1	0	198540	5024
Т	F502	-3		DUAL DC INVERTER MOD	*	U	ML	MA	R		32	!		0	198580	5024
	F502	-3		DUAL DC INVERTER MOD	*	U	ML	MA	R		32	i		0	198603	50243
П	F603	-2		DUAL AC EMITTER	*	U	ML	MA	R		32			0	198541	50243
	F603	-2	Į	DUAL AC EMITTER	*	U	ML	MA	R		32	Ì		ا ہ	198581	50243
1	F603	-2		DUAL AC EMITTER	*		ML	MA	R		32			0	198604	50243
П	F803	-3	- 1	RC AMP MODULE	*	U	MI	MA	Я		32	;	- 1	ă	198542	50243

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D	AWING		ς <b>τ</b>	MARINER F				SHT NUMERI		.Aur.	PAGE	49	4-11-6	3
ì	DRAWING NO.	PAIR EO.	11	TITLE	ŧ		topt	BELEASE FOR MAJOR INCH SIDIAL THRU SER	****	UATE DATE	CONTROL STATUS		NEXT ABSEMBLY	Ī
:	F803	-3	H	RC AMP MODULE	*	Ü	ML	MA R	32	1	0	198582	50243	+
Ī	F803	-3	1	RC AMP MODULE	*	Ιŭ	ML	MA R	32		ō	198605	50243	
H	F804	-2	+-	RC AMP MODULE	*	Ŭ	ML	MA R	32		ō	198543	50243	Ť
	F804	-2		RC AMP MODULE	*	u	ML	MA R	32		0	198583	50243	ı
	F804	-2	1	RC AMP MODULE	*	tŭ	ML	MA R	32		0	198606	50243	T
1	F900	-2		RC PARAPHASE AMP MOD	*	ľů	MI	MA R	32		o l	198544	50243	1
Η	F900	<del>-</del> 2	⊢	RC PARAPHASE AMP MOD	*	ŭ	ML	MA R	32	1-1-1	Ö	198584	50243	1
1	F900	-2	1	RC PARAPHASE	*	ŭ	ML	MA R	3 2		0 1	198607	50243	1
+	F1000	-2	╁╾	TUNED AMP MODULE	*	ŭ	ML	MA R	32	<del>                                     </del>	Ö	198545	50243	1
Ì	F1000	-2	1	TUNED AMP MODULE	*	ŭ	ML	MA R	32		0	198585	50243	
1	F1000	-2	⊢	TUNED AMP MODULE	*	ŭ	ML	MA R	132	<u> </u>	0	198608	50243	
	F1100	-2		PUSH PULL AMP MODULE	*	ŭ	ML	MA R	32		o l	198546	50243	
┪	F1100	-2	┼	PUSH PULL AMP MODULE	*	ŭ	ML	MA R	32	1-1-1	0	198586	50243	
Į	F1100	-2	1	PUSH PULL AMP MODULE	*	Ĭŭ	ML	MA R	32	1   1	ō	198609	50243	
4	64000	-2	╁	REFERENCE MODULE	*	lŏ	MI	MA R	32	+-+-	Ö	198562	50246	
ı	F4001	-3		FLUXGATE SPECIAL MOD	*	1 -	ML	MA R	32		a	198547	50243	
4	F4001	-3	⊢	FLUXGATE SPECIAL MOD		Ü	MI	MA R	32	<del>  -  </del>	5	198587	50243	
ı	F4001	-3		FIUXGATE SPECIAL MOD		} -	1	MA R	32		a l	198610	50243	
4	F4004	-2	+-	DUAL RELAY DRIVER	*	tö	MI	MA R	32	+-!	ā	198563	50246	
ļ	SP30000	-1		INDUCTOR	*	Ĭ.	ML	MA R	3.2		l o	198548	50243	
-	SP30000	-1	+	INDUCTOR	*	Ιŭ	ML	MA R	32	<b>—</b>	O O	198588	50243	_
	SP30000	-1		INDUCTOR	·	Ĭ.	ML	MA R	32		, j	198611	50243	
	SP30001	-1	╁	TRANSFORMER	*	ŭ	ML	MA R	32	+ - +	ō	198549	50243	
	SP30001	-3		TRANSFORMER	*	ľŭ	ML	MA R	32		ő	198550	50243	
-		-4	╁	TRANSFORMER	+	ιŭ	ML	MA R	32	<del></del>	ŏ	198551	50243	
- 1	SP30001	-1		TRANSFORMER	ı,	U	ML	MA R	32		ő	198589	50243	
	SP30001	-1	+	TRANSFORMER	+	υ	MI	MA R	32	<del>  - +</del>	0	198590	50243	
	SP30001	-3  -4	1	TRANSFORMER	*	Ιŭ	ML	MA R	32		ő	198591	50243	
_	SP30001	-1	+	TRANSFORMER	1	ů	MI	MA R	32	<del> </del>	0	198612	50243	
	SP30001	-3		TRANSFORMER	I.	lu	ML	MA R	32		ŏ	198613	50243	
	SP30001	-4	⊬	TRANSFORMER	*	U	ML	MA R	32	<del> </del>	o o	198614	50243	
	SP30001 SP30002	'		BAND PASS FILTER		Iĭi	ML	MA R	32	1 !	o	198552	50243	
_	SP30002	-1	+-	BAND PASS FILTER	*	10		MA R	32	+	0	198592	50243	
				BAND PASS FILTER	·	lu	MI	MA R	32	i	ŏ	198615	50243	
	SP30002	101	+	BLANK PANEL & CARRY	+	Ü	+	MA R	32	<del> </del>	- ŏ	198513	150067	
	SP30004	101	1	CASE ASSY PANEL MIG	1.	ľ		MA R	32		0		SP30003	
	SP30004	101	+	PANEL ASSY LWR BLANK	+			MA R	32	<del>                                     </del>	0	198515	SP30003	
		_	1	PANEL ASSY LID BLANK	1	lu	1 -	MA R	32		0		SP30003	
	SP30006 SP30031	101 -1	+ -	TRANSFORMER	*	+-		MA R	32	+ - +		198553	50243	
	SP30031	-1		LIMMISTORPER	*	1~	1 -	MA R	132	1 1	l ő	198593	50243	

	AWING	1	<b>c</b> T	JET PRI CALIFORNIA IN: MARINER F								ALIF.		PAGE	50	4-11-6	_
	DRAWING NO.	9.01	11		4	ij	#1 HB02	Br#18	1014	IT 408 ITEM THEN 118.	161P.	## L	18	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
	SP30031	-1		TRANSFORMER	*	Ü	ML		R I	TARE 518.	32	10,		0	198616	50243	1
	SP30047	٠.	1	TRANSFORMER	×	Ιŭ	ML	MA	R		32			Ó	198565	50246	.
	SP30048		+	INDUCTOR	*	Ŭ	ML		R		32			0	198564	50246	Γ
	SP30052			BRACKET TERMINAL BD	*	Ŭ	ML	MA	R		32			C	198524	50143	
_	SP30061		+-	TRANSISTOR	*	ΙŬ	ML		R		32			0	198554	50243	Ī
	SP30061			TRANSISTOR	*	ŭ	ML		R		32			õ	198594	50243	
	SP30061		+	TRANSISTOR	*	ŭ	MŁ		R		32			ō	198617	50243	
1					ı^	ŭ	MI		R		32			ŏ	198535	50180	
	SP30079		+	INSULATING SPACER	*	Ü	ML		R		32			0	198536	50180	
	SP30080			INSULATING WASHER	*	li.	ML		R I		32			0	198517	T50067	
_	\$40003		╄	TEST SPEC CHECK UNIT	+-	+-		<del></del>	_					- 6	198531	50180	_
	540064	l		TEST SPEC CHECKOUT	*	U	ML	MA			3.2		i i	-	198518		
_	T50031	L	↓_	SCHEM CHECKOUT CASE	*	+×-	ML		R		32			<u> </u>	<del></del>	150067 4800293	
		101	1	ML104-1 MAG TEST SET	*	U	ML	MA			32	i	i	0	198512		
_		102	_	ML104-2 MAG TEST SET	*	<del>ٽ</del>	ML		R		32	<b>_</b>		<u> 0</u>	198528	4800293	
	T50118	1	1	TB1 MAG TEST SET	*	U	ML	MA			32	Ì	1	Ö	198520	50141	
	T50119			TB2 MAG TEST SET	*	Ų	ML	1	R		32	L	-	0	198522	50142	
	T50120	Ī		TB3 MAG TEST SET	*	U	ML	MA			32		1	0	198525	50143	
	50124	l	1.	TRI-AX MAG PROBE ENV	*	U	ML		R		32			0	198532	50180	۰
Π	50141		Т	TB1 MAG TEST SET	*	U	ML		R		32	l	1	O	198519	T50067	
	50142			TB2 MAG TEST SET	*	U	ML		R		32	<u> </u>	<u> </u>		198521	150067	7
	50143		Г	TB3 MAG TEST SET	*	U	ML	MA	R		32			Ü	198523	T50067	,
	50144		1	WIRING LIST CHECKOUT	<b>*</b>	Įψ	ML	MA	R		32		i	0	198526	I50067	1
,	T50156		1	CABLE HARNESS	*	ΙU	ML	MA	R		32	ļ	1	O	198527	T50067	•
,	50179		1	TRI-AX MAGNETMTR ENV	*	10	ML	MA	R		32			0	198533	50180	١
ī	50180	_	1	ML 126-1 MAGNETOMETER	×	Īυ	ML	MA	R		32	1		0	198530	4800293	
,	50180	101		MAGNETOMETER ASSY	*	ū	ML	MA	R		32	1		0	198534	50180	;
ī		102	+-	TRIAX FLUXGATE MAG	×	Ū	MI	MA	R		32		-	0	198576	50180	)
	50227	102		SCHEMATIC	*	lũ	ML	MA	RΙ		32	1		0	198625	50180	)
<u>-</u>	50241	<del>                                     </del>	+	CIRCUIT MASTER	+	ľ	ML		R		132	-	† — ·	0	198558	50242	į
	T50241	l	i	CIRCUIT MASTER		Ιŭ	ML	MA	R		32	l		o	198598	50242	
-	T50241	<del> </del>	+	CIRCUIT MASTER	1+	Ιŭ	ML		R	<del></del>	32		i	Ú.	198621	50242	
)		1, , ,		CB TRI FLUXGATE MAG	*	I	ML	MA	R		32		1	ő	198555	50243	
,	50242	+	_	BOARD ASSY	1	Ιŭ	MI	MA	R	-	32	<b>†</b> -	<u> </u>	Ď	198556	50242	
	50242	-2		BOARD ASST	*	1 -	MI	MA	R		32		1	ő	198557	50242	
•	50242		-	BOARD INSULATOR	1.	Tu	ML	MA	R		132	†	į	<u> </u>	198559	50242	
)	50242	-3	1		!;	10	ML	MA	R		32		1	ŏ	198595	50243	
	50242	101	-	CIRCUIT BOARD	+;	- ·	ML	MA	R		32	<del>†</del>	<del> </del>	0	198596	50242	
5	50242	-2		BOARD ASSY	*	10	1	1	R	İ	32		1	0	198597	50242	
2	50242	-1	-	BOARD DETAIL	-	1 ~	ML	MA	R		+	+	<del>!</del>	0	198599	50242	
5	50242	-3	- 1	BOARD INSULATOR	1*	1	–	MA			32		1	0	1		
)	50242	101	. 1	CIRCUIT BOARD	*	U	ML	MA	R		132	1	1	U U	198618	50243 JPL 0513 JU	

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R	AWING	; L1	s t	CALIFORNIA IN MARINER	STII R	6 2	OF TE	CHNO GH T	NI	, PASADI JMERIC	ENA, C	ALIF.		PAGE	51	4-11-6	-
	DRAWING NO.	9468 80.	15	TITLE	ŧ	2	TE #800	_	BYTO	1110 1110	011P,	9 f t 84	72.	DRAWING CONTROL STATUS		HEXT ASSEMBLY	-
	50242	-2		BOARD ASSY	*	U	ML	MA			32	-0,		0	198619	50242	-
	50242	-1	L	BOARD DETAIL	*	U	ML	MA	R	!	32			Ó	198620	50242	
	50242	-3		BOARD INSULATOR	*	U	ML	MA	R		32			0	198622	50242	
_	50243		$\perp$	CB TRIAX FLUX MAG	*	U	ML	MA			32			0	198537	50180	
Į		102	i	CB ASSY MAGNETOMETER	*	U	ML	MA	Ŕ		32			0	198577	50180	
		103	L	CB3 ASSY	*	ļυ	ML	MA	R		32	j		0	198600	50180	
I	T50244	I	П	CIRCUIT MASTER	*	U	ML	MA	R		32	_		0	198569	50245	•
	50245	101		CB PWR SUP & IFC	*	U	ML	MA			32			0	198566	50246	
I	50245	-2		BOARD ASSY	*	U	ML	MA	R.		32	_	$\vdash$	0	198567	50245	
Į	50245	-1	L.	BOARD DETAIL	*	U	ML	MA	R		32		' I	ō	198568	50245	
İ	50245	-3		BOARD INSULATOR	*	U	ML	MA	R		32	$\neg$		0	198570	50245	
		101		CIRCUIT BOARD ASSY	*	lυ	ML	MA	R		32			o ·	198560	50180	
T		101		HOUSING	*	U	ML	MA	R		32		_	0	198572	50180	
[	50261	-1		HOUSING	<b> </b> *	u	ML	MA	R		32	- 1		ŏ	198573	50261	
T	50261	-3	П	BRACKET	*	Ιυ	ML	MA	Ŕ		32	- 1	$\rightarrow$	0	198574	50261	
ı	50261	-4	1	ANGLE	*	Ιŭ	ML	MA			32	- 1	- 1	0	198575	50261	
1	50261	102	П	HOUSING	*	ΙīΤ	MI	MA	R		32			0	198623	50180	
ı	50261	-2		HOUSING	*	Ιŭ	ML	MA			32	ļ	- 1	o i	198624	50261	
1	50275		П	WIRING DGM	*	ΙŪ	ML	MA			32	!	$\dashv$	<del>-</del>	198626	50180	
ı	50283		1 1	WIRE LIST	*	Ιŭ	ML	MA	R		32	ŀ		o l	198627	50180	
T	L50285			LAYOUT MAGNETOMETER	*		MI	MA	Ŕ		32			0	198628	50180	
ı	50287		lľ	POTTING CUP MODIFIED	*	Ū	ML	MA	R		32	- 1	- 1	ŏ	198571		
1	50288			MA-R CHECKOUT ADAPTR	*	•	ML	MA	Ŕ		32	- 1	+	0		50246	
1	50289			SYS WIRING DIAGRAM	*	١-	ML	MA			32	i		Ö	198529	T50067	
1						ľ									198029	50180	
	14049 14049			SELF-LKG 4-40X3/16 SELF-LKG 4-40X3/16	_			MA MA	R		33 33	-	-	0	148000	25380	
t	14049			SELF-LKG 4-40X3/16	-				R		33	$\dashv$	$\rightarrow$	0	163300	25381	ļ
۱	14049			SCR SELF-LKG PAN HD				MA	R		33	i	- 1	· 1	145400	25382	
t	14143			INS SLVG ELEC EXPAND	-	2			R		33		-+	ò	158900	25383	
l	14143	- 1		INS SLVG FLEC EXPAND		u		,	R				- 1	0	159500	25367	
t	14143			INS SLVG #18 WHT	-	_		MA	R		33	$\rightarrow$	+	0	161500	25368	
ĺ	14143			INS SLVG #18 WHT		-			R			- 1		0	146600	25369	ı
t	14143			INS SLVG #18 WHT	-	_	MOT	MA	R		33		-+-	0	148600	25370	l
t	14143			INS SLVG #18 WHT		- 1			- 1		33	1		0	154200	25371	
t	14143			INS SLVG FLEC-EXPAND	-4	-	MOT		R		33	_i	$\rightarrow$	0	163900	25372	Į
Í	15013			PAN HD 6-32X 5/16	- 1	U		MA	R		33	- 1		0	166100	25373	į
┖	OTES CHANGE TO					UΙ	MOT	IMA.	R		331	3	- 1	0	148100	25380	į

٠	DENOTES	c	44 N G	Œ	10	PREVIOUS	1157

DENOTES CHANGE TO PREVIOUS LIST

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MARINER R 62 FLIGHT NUMERICAL PAGE 4-11-63 DRAWING LIST DRAWING HO. \*\*\* di 3 3 TEMPS TITLE DRAWING LONTROL STATUS 1 1 NEXT ASSEMBLY | A | COSE | COSE |
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RES FXD 3300-5-1/4
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RES FXD 27K-5-1/4 15021 15021 ō 25360 33 33 157800 25362 RES FXD 276-5-1/4
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RES FXD 470K-5-1/4 15021 152500 25364 U MOT MA R U MOT MA R U MOT MA R U MOT MA R 33 15021 25370 33 RES FXD 470K-5-1/4 RES FXD 100K-5-1/4 25372 U MOT MA R RES FXD 39K-5-1/4 RES FXD 82K-5-1/2 15022 33 33 151300 U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R WASH LOCK #4 MED SPT LOCK #4 MED SPLIT WASH LOCK #4 MED SPL WASH LOCK #4 MED 15067 163500 25381 33 33 159100 25383 FILTER BAND 33 33 PCB Ω 

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	DRAWING NO.	BAEN BO.	4 :	TITLE	į	3	7 E H B D P	411	MAJOR ITEM	117	855 LASE 8474	CONTROL STATUS		NEXT ASSEMBLY
	22488		╁	PC BD	-	Ū	MOT	MA	R	133	T 1	5	160600	2536
	22489			PC BD	l	U	MOT	MA	R	33	İ	0	160700	2536
	22490		$\vdash$	XMER AF-CHPR DEMOD	Г	U	MOT	MA	R	33		0	148900	2537
	22490			TRANSFORMER AF	l	U	MOT	MA	R	33		_0	154600	2537
	22491		_	XMFR AF	_	U	MOT	MA	R	33	T	) )	149000	2537
	22491			XMFR AF-LOOP PH DET	l	U	мот	MA	R	33	1 1	) o	164200	2537
	22494		-	HOUSING SUBCHASSIS	_	U	MOT	MA	Ŕ	33		0	148300	2538
	22494		1	HOUSING SUBCHASSIS	ļ	U	MOT	MA	R	33		0	163600	2538
	22497		t	HOUSING SUBCHASSIS		U	MOT	MA	R	33		0	159200	2538
	22549		-	PCB		U	MOT	MA	R	33	l !	0	158200	2536
	22550		$\vdash$	PCB	Π	ΙŪ	MOT	MA	R	33		0	158300	2536
	22555		İ	PCB	l	ŀυ	мот	MA	R	33	1	0	157900	2536
	22556		-	PCB	1	U	MOT	MA	R	33		0	158000	2536
	22568		1	PCB		lυ	MOT	MA	R	33	1 1	0	153100	2536
	22569		†-	PCB	1	ĪŪ	MOT	MA	R	33		0	153200	2536
	22571			PCB	ı	Ιu	МОТ	MA	R	33		0	152600	2536
	22572	_	+-	PCB	Т	ΙŪ	MOT	MA	R	33		0	152700	2536
	22577			PCB	ļ	Ū	мот	MA	R	33		U	152200	2536
	22578		✝	PCB	†	Ū	MOT	MA	R	33	1 1	0	152300	2536
	22629			TRANSFORMER AF-211	1	lυ	мот	MA	R	. 33	l _i	1_0	146800	253
	22630		†-	TRANSFORMER AF-212	T	Ū	MOT	MA	R	33		0	146900	253
	22631		-	INDUCTOR-3MH	1	Ιù	MOT	MA	R	33		0	147000	253
•	22643		1	TRANSISTOR	1	U	MOT	MA	R	33		0	152800	253
	22645		1	HOUSING SUBCHASSIS		U	мот	MA	R	33	1		145700	253
	22647	_	†	SPACER SUBCHASSIS	T	Ū	MOT	MA	R	33		Ö	148400	253
	22647			SPACER, SUBCHASSIS	1	Įυ	MOT	MA	R	33		Ü	163700	253
	22647		+	SPACER SUBCHASSIS	1	U	MOT	MA	R	33		Ç	145800	253
	22647		1	SPACER SUBCHASS	i	U	том	MA	R		L_i_	0	159300	253
	25275		T	PH DET LOOP-CM MOD	Г	Ų	MOT	MA	R	33		9	149100	253
	25275			LOOP PH DET-COM PH	ı	U	MOT	MA	R	_ 33	1i _	0	164300	253
	25276		+-	PCB	1	Ū	MOT	MA	R	33	T	0	149300	252
	25277		İ	PCB	1	ΙÚ	MOT	MA	R	33		Ú	149400	252
	25278		1	QUAD PHASE DET MOD	1	Τů	MOT	MA	R	33	T	0	149500	253
	25279		1	PCB		ΙŪ	MOT	MA	R	33	l i .	1 0	149700	252
	25280		+	PCB	Т	Ü	MOT	MA	R	33		7 0	149800	252
	25281		1	CHOPPER		U	MOT	MA	R	33	1 1	0	154700	253
	25282		+	PCB	T	lu	MOT	MA	R	33	Till	C	154900	252
	25283			PCB	1	ΙŪ	MOT	MA	R .	33	1 1	J_ 0	155000	
ŀ	25284		†	LOOP PH DET DRVR MOD	1	Tu	MOT	MA	R	33	T [ ]	0	149900	253
	25284		1	LOOP PH DET DRVR MOD	1	10	MOT	MA	R	33		Ü	155100	253

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				CALIFORNIA IN	STIT	UTE	OF TEC	HNO	LOGY, PAS	ADENA,	ALIF.			DATE LISTES	0
F	AWING	LI	s t	. MARINER F	₹ (	62	FLIC	энт	NUMER	ICAL		PAGE	54	4-11-6	3
-	DRAWING NO.	915H 80.	9 4	TITLE	ŧ	5	C004		MAJOR ITEM	ICIP.	\$1.1452 Call \$2. 14.	CRAWING CONTROL STATUS		NEXT ASSEMBLY	
-	25284		+-	LOOP PH DET DRVR MOD	t	U	MOT	MA		33		o .	164400	25372	
	25285		1	PCB	ł	lu l	MOT	MA		33	<u>.</u> !	0	150000	25284	
_	25285		1-	PCB	Т	U	MOT	MΑ	R	33		0	150300	25287	
	25286		1	PCB		U	MOT	MA	R	33		0	150100	25284	
	25286		+	PCB		U	MOT	MA	R	33		Û	150400	25287	
	25287		1	QUAD PH DET DRVR MOD	1	lu	Мот	MA	R	33	-	0	150200	25370	
_	25288	-	1	DUAL DRIVER MODULE	t	tu	MOT	MA	R	33		0	161700	25368	
	25288		1	LP DUAL DRIVER MOD		łυ	MOT	MA	R	33		0	164500	25372	
-	25288		+	LP DUAL DRIVER MOD	Ť	Ū	MOT	MA		33		0	166300	25373	
	25289		1	PCB	1	ŭ	MOT	MA	R	33		G	161900	25288	
	25290		+-	PCB	t	11		MA	R	33		0	162000	25288	
	25291		1	DUALGINVERT GATE MOD		Ĭ.	MOT		R	33		0	159700	25367	
	25291	_		DUALSINVERT MODULE	t	ĬĬ		MA		33	1	0	162100	25368	
	25291	l	1	L PWR DUAL-INV MOD		li.	1	MA		33	i	o	155200	25371	
_	25291		+	LP DUAL-INV GATE MOD	+	Ιŭ	MOT		R	33		0	164600	25372	î
	25291	l		IP DUAL-INV GATE MOD		lü	MOT		R	33		o	166400	25373	
-	25292		+	PCB	+	15		MA		33		-5	155300	25291	
	25292		1	PCB	1	Ĭŭ		MA		33		0	153800	25384	
_	25292		+-	PCB	<del> </del>	۱ř	MOT	MA		33	+ +		155400	25291	
	25293			PCB	1	Ĭ.		MA		33			153900	25384	
	25294		+-	9 INPUT DET-INV MOD	$^{\dagger}$	111	MOT			33		1 0	164700	25372	
	25295	ł	-	PCB	1	Ιŭ	MOT			33		l o	164800	25294	
_	25297		+	DRIVERSINVERT GATE	†-	111	MOT			33		0	159800	25367	ī
	25297		1	DRIVERSINVERT GATE	1	1	мот			33		1 5	162200	25368	j
	25297		-	DRIVER-INVERT MODULE	+	ŭ	MOT	MA		33		0	150500	25370	
	25297			DRIVER-INV GATE MOD		I.	MOT	MA		33		0	165000	25372	2
	25298	1	+	PCB	+-	ĬĬ	MOT			33	1 - ;	1 3	150700	25297	ï
	25299	}	1	PCB		Ιŭ	MOT	MA		33		1 5	150800	25297	7
-	25304	<del>-</del>	+	PC BD1	†	Ĭŭ	MOT	+		33		1 5	159900	25367	ī
	25304	1		PC BD2	1	I.	MOT		R	33		5	160000	25367	
_	25306	<del> </del> -	+	IPC1	+-	11	MOT		R	33	11	0	162300	25368	
	25307	1		PC BD2		Ĭ,	MOT			33		0	162400	25368	
-	25307	<del> </del>	-   -	PCB-#2	+-	1	MOT			33	1 -!	0	150900	25370	
	25308		1	PCB-#1		lu.	MOT			33		ìŏ	151000		
-	25310	1	+-	PCB #2	+	Ti,	MOT			33	1	<del>                                      </del>	155500	25371	
	25311	1		PCB #1	1	Ιŭ	MOT			133		1 0	155600	25371	
	25312	+	+-	PCB #2	+	ΤÜ	MOT			33	1 1	5	165100		
	25312			PCB#1	1	lŭ		1		33		0	165200		2
_	25314	+		PC#1	$^{+}$	18				33	1 1 "	0	166500		
	25314			PC#2	1	υ	1			33		1 6	166600		

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F	RAWING	L I	s t	MARINER A									PAGE	55	4-11-6	Ċ
_	DRAWING NO.	****	# £	TITLE	4	ELAES	75 ****	Т		41 701	2512.	******	DRAWING		NETT	-
		<b>BO.</b>	3 3		3	_	CODI		BIAL	THEG SEE.	DIV.	FO. YE.	CONTROL STATUS		NEXT ASSEMBLY	
	25317			PCB	1	U	MOT		R		33		0	164900	25294	
	25318		_	9 INPUTGINVERT MOD	┖	U	MOT		R		33		0	160100	25367	
	25318			INPUTGINVERT MODULE	i	U	MOT		R		33	- 1	0	162500	25368	
_	25319		ــــــــــــــــــــــــــــــــــــــ	PC BD	L	υ	MOT	MA			33		0	160200	25318	
	25320		ł	PC BD	i	U	MOT	MA			33	İ	0	160300	25318	
	25322		L	LIMITER AMPL MODULE	L	U	MOT	ΜA			33	!	0	155700	25371	_
	25323		1	PCB		U	MOT	MA			33	I	0	155900	25322	
	25324		上	PCB	L	U	MOT	MA			33	i_	0	156000	25322	
	25325		1	LIMITER EMIT FOL MOD	1	U	MOT	MA			33		0	156100	25371	
_	25326		1	PCB	L	U	MOT	MA			33	!_	0	156300	25325	-
į	25327			PCB	1	Ü	MOT	MA		1	33	i	0	156400	25325	
_	25328		<u></u>	8 MSEC MONO MODULE	┖	U	MOT	MΑ			33		0	151100	25370	
	25329		1	PCB	l	U	MOT	MA			33	j	0	151400	25328	
	25330		┖	РСВ	<u> </u>	U	MOT	MA			33		0	151500	25328	
	25331			VOLTAGE CONT OSC	l	U	MOT	MA			33	- 1	0	165300	25372	
_	25332		L.	COM INPUT AMPL MOD	┖	U	MOT	MA			33		0	156500	25371	
ı	25333			PCB	l	U	MOT	MA			33	1	0	156700	25332	
_	25334		1	PCB	┞.	U		MA			33		0	156800	25332	
	25335			COM OUPT AMPL MOD	l	U	MOT	MA			33	Ì	0	156900	25371	
4	25336		ļ	PCB	┞	Ų.	MOT	MA			33	<del></del> i	0	157100	25335	
	25337			PCB	l	U	MOT	MA			33	l	0	157200	25335	
4	25338		-	DUMP DRIVER MODULE	<del> </del>	U	MOT	MA			33	<del>-</del> -	0	151600	25370	
ı	25339			PCB 00-5-1/4	l	υ		MA			33	1	0	151800	25338	
_	25340		Ш	PCB	_	U		MA			33		0	151900	25338	
	25341		l	3 9V&18V MODULE	ŀ	υ	MOT	MA			33	ĺ	0	157300	25371	
4	25342		H	PCB	<b>Ļ</b> .	U	MOT	MA			33	i	0	157500	25341	_
ı	25343		1	PCB		U	MOT	MA			33	i	0	157600	25341	
4	25344		H	6V 28V RECT MODULE	⊢	U.	MOT	MA			33	— <del>i</del> —	0	146000	25369	•
	25345			PCB	ĺ	U		MA		i	33		0	146200	25344	
4	25346 25347		-	PCB 6 VOLT REC-FIL MOD	+-	U	MOT	MA			33		0	146300	25344	
				PCB	1	U	,				33		0	146400	25369	
-	25348 25349		$\vdash$	PCB	-	U	MOT	MA			33		0	146500	25347	
	25350					V					33		0	147100	25369	
4	25351		$\vdash$	LOOP FILTER MODULE PCB	⊢	U	MOT	MA			33			165400	25372	
	25352			PCB	1	U	MOT	MA MA			33		0	165500	25350	
4	25353		<del> </del>	PCB	-	U	MOT	MA			33		<del>  0</del>	165600	25350	
Ì			l Ì		ı	I ~ i					33	- 1	1 -	147200	25369	
4	25360	_	<del> </del> -	IS SW MODULE	<u> </u>	U	MOT	MA	R		33		0	160400	25367	
ļ	25361		H	IP SW MODULE IP SWITCH MODULE	1	U	MOT	MA	R		33	i	0	160800	25367	
_	25361		$\Box$	IP SWITCH MODULE		ıU.	MOT	MA	ĸ		اددا	!	1 0	162600	25368 JPL 0513 JUN	

) F	RAWING	LI	s t	CALIFORNIA IN: MARINER F						,		CALIF.		PAGE	56	4-11-6	
:	DRAWING NO.	0.454	4 :	TITLE	į	3	******	Γ		1 T C 0	PESP.		IASE 176	DRAWING CONTROL		MEXT	Ţ
•		80.	0.2		3	15	ECDE		4141.	THRU SEE.	#1¥.	<b>#0.</b>	10.	STATUS			1
	25361		1	IP SWITCH MODULE		U	MOT	MA			33			0	166700	25373	
_	25362		1	LIMITER MODULE	L_	Ų	MOT	MA			33			0	157700	25371	
	25363		1	DUAL INVERTER MODULE	ı	U	MOT	MA	R	İ	33	1	i i	0	152000	25370	
	25364			DUAL DUMP MODULE	L.	U	MOT	MA	R		33		<u></u> !	0	152400	25370	
	25365		1	MATCHED FIL AMPL MOD	Г	U	MOT	MA	R		33			0	152900	25370	
	25366			INPUT EMIT FOL MOD	l	lυ	MOT	MA	R		33		1	0	158100	25371	
_	25367			DECODER ASSY	†-	ΙÜ	MOT	MA	R		33			0	159400	25383	_
	25368			DECODER ASSY	l	lυ	MOT	MA	R		33	1	!	0	161400	25383	
_	25369		1	POWER SUPPLY ASSY OF	┰	Ū	MOT	MA	R		33		!	0	145900	25382	
	25370		1	FIL & PHASE 3A2A2	l	Ιū	мот	MA	R		33	l	1 1	ō l	148500	25380	
	25371		1	AMPL COMMAND-3A2A1	$\vdash$	Ιŭ	MOT	MA	_		33			0	154100	25380	
	25372		1	GEN PH LK-L 3A1A2	l	Ιŭ	мот	MA			33		!	ŏ	163800	25381	
_	25373	_		TELEMETRY 3A1A1	1	ŭ		MA			33			0	165900	25381	-
	25374		1	S/R/T FLIP FLOP MOD		Ιŭ	мот	MA			33			Õ	161200	25367	
_	25374		$\vdash$	S/R/T FLIP FLOP MOD	Н	ŭ	MOT	MA			33	_	1	ō	162700	25368	
	25374		1 1		Ì	ů.	MOT	MA						0			
	25374		Н	S/R/T FLIP-FLOP S/R/T FLIP FLOP MOD	⊢	+-	MOT	1			33		⊢		153300	25370	
			1.			U		MA			33			0	165700	25372	
-	25374		$\vdash$	S/R/T FLIP-FLOP MOD	ļ	U	MOT	MA			33			0	166800	25373	-
	25375		l i	PCB	ĺ	U	MOT	MA			33		1 1	0	153500	25374	
_	25376		$\vdash$	PCB	┞-	u.	T.OM	MA	R		33			<u> </u>	153600	25374	
	25380		1 1	DETECTOR -3A2		U		MA			33		! !	٥		4600309	
	25381		Ш	DETECTOR A-3A1	<u> </u>	U	MOT	MA			33		$\vdash$	0	163200	4600311	
	25382			POWER SUPPLY-3A3		U	MOT	MA	R		33			0	145300	4600308	
	25383			DECODER 3A4		U	MOT	MA	R		33			0	158800	4600310	
	25384			DET-INVERT GATE MOD		U	MOT	MA	R		33			0	153700	25370	
	25385			SPACER CONNECTOR		υ	MOT	MA	R		33			0	158500	25380	
	25385			SPACER CONN ELEC		U	MOT	MA	R		33			0	166000	25381	
	25385			SPACER CONN ELEC		U	MOT	MA	R		33		il	0	147500	25382	
	25385			SPACER CONN ELEC		U	MOT	MA	R		33			0	162900	25383	
	25540		ŀ	DUMMY MODULE		u	мот	MA	R		33			o l	147300	25369	
	25540			DUMMY MODULE	_	U	MOT	MA	R		33			0	166900	25373	
	29503		H	INS COMP FLEC PROTECT		lŭ,	MOT				33			ō	161300	25367	
	29503		1	INS LACQUER KIT	$\vdash$	υ	MOT	MA			33			0	162800	25368	-
	29503			INS LACQUER		lu l	MOT	MA			33			ŏ	147400	25369	
_	29503		1-1	INS LACQUER KIT	$\vdash$	Ü	MOT	MA			33	-	1	0	154000	25370	
	29503			INS LACQUER KIT	!	أنا	MOT	MA			33			0	158400	25371	
	29503		+-+	INS LACQUER KIT		Ü	MOT	MA			33			0	165800	25372	
	29503			INS LACQUER KIT		1 1		MA			33			0			
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Ë	120123			XPONDER SUBASSY		U	MOT	MA			33	07		Č	107300		
۶	120148	В		OSCILLATOR RADIO		U	MOT	MA	R!		33	07	621	C	107400	0120123	1

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UK	AWING	LI	51												<u> </u>	_
1	DRAWING NO.	DASH BD.	1	TITLE	1	3	VE N PO 1	WAJO	11 FOR	PEST.	-	TATE	DRAWING CONTROL		HEXT ASSEMBLY	1
÷	120159	В.	1.	FREQUENCY DIVIDER	Ľ	ů	MOT	MA R	Test 113.	33	-	62	STATUS	122000	0120178	1.5
		8		DETECTOR RADIO FREQU		Ü	MOT	MA R	i	33	07		ć		0120178	
밁	120168			FILTER SUBASSY LOW	$\vdash$	H	MOT	MA R		33			C			-
- 1		В				1 -		MA R				62			0120173	
D	120170		-	CONVERTER FRED ELECT	-	U	MOT					62	<u> </u>		0120123	-
D	120171			AMPLIFIER INTER FREQ	ŀ	U	MOT	MA R			07		C		0120178	
D	120172		_	AMP 2 INTERMED FREQ	L			MA R			07		C		0120178	L
D	120173	В	i	FILTER LOW PASS	ŀ	U	MOT	MÁ R			0.7	62	C		0120123	l
D	120174		L	AMPLIFIER DIRECT	Ш	U	MOT	MA R	<u> </u>			62	C		0120178	L
וס	120175			OSCILLATOR RADIO		U	MOT	MA R				62	Ç		0120123	
D	120176	В		FREQUENCY MULTIPLIER	_	U		MA R	<u> </u>		0.7		ς		0120123	<u> </u>
דו	120177		П	FREQ MULTIPLIER	i	U	MOT	MA R			07	62	C	117700	0120123	
F	120178		, '	XPONDER SUBASSY	l	U	MOT	MA R	ļ	33	07	62	C		4300188	
ד	120199	В		AMPLIFIER SUBASSY	Г	U	MOT	MA R		33	0.7	62	7	126000	0120172	1
нį	120310	Α	1	CAVITY TUNED X7	l	U	мот	MA R		33	07	62	C .	114400	0120176	
в	120834	8	†	BLOCK MTG SUBASSY	_	U	MOT	MAR		33	07	62		109100	0120170	
c l	120855	В	1	FREQ CONVERTER LOWER	l	lυ	мот	MA R		33	07	62	C		0120170	l
5	120856			FREQ CONVERTER SUBAY	$\vdash$	ũ	MOT	MA R			0.7	62	<u> </u>		0120170	+
٦	120860			TRANSPONDER 890/960	*		MOT			33		"	ò	107700	01201.0	1
-+	120883		╁─	TRANSPONDER A1A7	*	ŭ	MOT	MR 6		33	-	!	0			+
	120884			TRANSPONDER AZAT	-	Ιŭ	MOT	MR6	1	33	ľ	(	0			1
н		Α	+	CAVITY TUNED X4	Ĥ	ŭ	MOT	MA R		_	0.7	6.2	Č	117900	0120177	╁
В	220126			NUT PLAIN HEXAGON	l	ŭ	MOT	MA R	1		07		Č		0120310	
	320126		⊢	SCREW TUNER CAVITY		ř	MOT	MA R	<del> </del>							₩
ć					l						07		Ç		0120310	
Ç	320127		⊢	SCREW TUNER CAVITY	⊢	U		MA R			07		Ç		0122726	┼
C	320280			RETAINER THREADED	۱.,	U	MOT	MA R	1		07	62	C	110200	0120170	
	320325	Α	ш	SCR MACH FH 2-56 68	*	U	MOT	MA R	ļ	33		1	Ů.			↓_
	320898			FASTENER CONNECTOR	*	U	MOT	MR6	i	33	1		0			
8	420201		L.	WASHER FLAT	ᆫ	Ų	MOT	MA R			07		C		0120178	_
В	420202	Α	1	WASHER FLAT	1	U	MOT	MA R	1		0.7	62	C	119000	0120177	
ı	425211	В	1	WASHER SPACER	*	U	MOT	MA R		33			. 0	Ĺ		
В	520857	В	П	GROMMET METALLIC		U	MOT	MA R		33	0.7	62	C	110300	0120170	-
.	620881	ĺ	1	RES THERMAL	*	U	MOT	MR6	1	33	_	1	0		L	1
D	720134	В	T	BRACKET CONNECTR MTG		U	MOT	MA R		33	07	62	C	120300	0120123	
D	720137	В		BRACKET CONNECTR MTG	i	Ų	MOT	MA R	1	33	07	62	C	128500	0120178	
D	720262			BRACKET RETAINER	1	Ū	MOT	MA R		33	0.7				0120170	į –
D	820219		1	CAPACITOR FIXED PLAS	1	ľŬ		MA R			07		č		0120173	
	1129509		1	INS VARNISH	*	Ū		MA R		33	Γ.	1	5		1	$\vdash$
	1129509		1	INS VARNISH	*	Ιŭ	MOT	MR6		33	1		0		1	
	1420136		+-	INSULATOR PLATE	H	Ü	MOT	MA R	<del>                                     </del>	33	0.7	62	ζ	111900	0120173	<u> </u>
	1420202			INSULATOR PLATE	1	10	мот	MA R		33	07		(		0120174	
	1450202	١^	1	ITHOUGHTON PLATE	ī .										101201/4	1

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MARINER R 62 FLIGHT NUMERICAL PAGE 58 4-11-63 DRAWING LIST 33 07 62 DRAWING CONTROL STATUS HEXT ASSEMBLY DRAWING NO. BARN d : Ę TITLE B 1420221 A B 1420277 A 1422686 A B 1422730 A B 1422730 A INSULATOR BUSHING 120400 0120123 INSULATOR XFORMER
INSULATOR PLATE
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INSULATOR CONTACT 120500 0120123 33 07 62 33 07 62 33 07 62 114700 0120310 114700 0122310 118000 0122726 114800 0120310 118100 0122726 118200 0122726 128600 0120178 108800 4822700 110500 0120170 115700 0120170 1422733 33 07 62 33 07 62 INSULATOR INSULATOR 33 07 62 33 07 62 1422750 INSULATOR CAV HOUSING XPONDER C 1520206 D 1520279 HOLDER CRYSTAL UNIT 33 07 62 U MOT MA R 33 07 62 33 07 62 COVER DUST COVER DUST
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) ]	RAWING	LI	S T	. MARINER	R	62	FLI	GHT	NU	JMERIC	CAL			PAGE	59	4-11-6
ï	DRAWING NO.	845H 80.	3 5	TITLE	1	1	76×001	L.		THOU SER.	461P. DIV.		17.E	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	2420819	В	T	TRANSFORMER RF	*	Ιü	MOT		R	1200 010.	33		,,,	0		
	2420820	В		XFMR RADIO FREQ	1	ĺΰ	МОТ	MA	R		33	0.7	62	Č	119200	0120177
	2420821	В		XFMR RADIO FREQ	Т	ΙŪ	MOT	MA	R		33	07	62	Č		0120177
	2420827	В		XFMR RADIO FREQ		U	мот	MA	R		33	07	62	č		0120176
	2420828	В	1 1	XFMR RADIO FREQ	Ŧ	U	MOT	MA	R		33	0.7	62	C		0120176
		В	Ш	COIL RADIO FREQ	1	U	MOT	MA	R		33		62	č		4620823
	2420836		П	XEMR RE FREQ	Т	U	MOT	MA	R		33	07	62	<del>c</del>		0120834
	2420837	В		COIL RF FRED CONVERT		U	MOT	MA	R		33	07	62	č		0120834
		В		COIL RADIO FREQ	Т	U	MOT	MA	R		33	07	62	<del>-</del>		0120148
		8	Ш	COIL RADIO FREQ	1	υ	MOT	MA	R		33	07	62	č		0120175
	2420864			XFMR RADIO FREQ VCO	T	U	MOT	MA	R		33	07	62	C		4620863
		В	Ш	XFMR RADIO FREQUENCY		U	MOT	MA	R		33	07	62	C		4620186
	2425213			COIL RADIO FREQ VARI	Γ	U	MOT	MA	Ř		33	07	62	C		0120176
		8		COIL RADIO FREQUENCY		Įυ	MOT	MA	R	- 1	33	07	62	C		0120171
		В		XFMR RADIO FREQUENCY	Т	U	MOT	MA	R			07	62			0120175
		В		XFMR RADIO FREQUENCY		ĺυ	мот	MA	R			07	62	c		0120175
		В		COIL RAD FREQ DIVIDE	T	Ū	MOT	MA	R				62	<del></del> -		0120173
		В	l I	XFMR RAD FREQ CONVER	l	ľu	мот	MA	R		1	07	62	č		0120134
Л	2522710	Α	П	FILTER BAND PASS CRY	1-	Ü	мот	MA	R				62	<u> </u>	126500	0120172
	2525218			FILTER BND PASS CRYS	*	υ	мот	MR	62 l		33	٠.		o l	120300	0120172
		В		CHASS ELECT EQUIP	1	Ü		MA				07	62	Č	107600	0120148
	2720104	8		CHASS ELECT EQUIP		۱۰	MOT	MA				07		č		0120148
		В	$\neg$	CHASSIS ELECT EQUIP		ŭ	MOT	MA	R				62	c		0120171
		В	į.	CHASS ELECT EQUIP	1	ŭ	MOT		R		33		62	č		0120160
П	2720118	В		CHASS ELECT EQUIP	T	ū	MOT		R				62	<u> </u>		0120172
	2720121	в	- 1	CHASS ELECT EQUIP		u	мот	MA	R				62	č		0120172
		В	_	CHASS ELECT EQUIP	<b>†</b>	Ü.		MA	R				62			0120173
1	2720130	В		CHASS ELECT EQUIP	l	Ū	мот	MA	R				62	č		0120176
П	2720131	В		CHASS ELECT EQUIP		J.	MOT	MA	R			_	62	<u>-</u>	127000	
_[	2720132	8	- }	CHASS ELECT EQUIP	l	ŭ.	MOT	MA	R				62	c l		0120174
П	2720158	В		CHASS ELECT EQUIP		U	MOT	MA	R			<u>07</u> !		C	112800	
١,	2720276	a I	- 4	BASE COIL		ŭ	MOT	MA	R			07		č		
T	2726593	В		CHASS ELECT EQUIP	_	_	MOT	MA	Ř			07				0120123
- [	2922698	Α		TERMINAL STUD	+	υĪ		MA	R		33	١,٠	٧٢	0	110900	0120170
7	2926826	В		LUG TERM	*	-		MA	R		33	-		0		
1	3020842	вΙ	- (	CABLE ASSY RF		- 1		MA	R			07	62	č 1	120700	0120122
1	3020842	3		CABLE ASSY RF	$\vdash$			MA	<del>R</del> T			07		<del>  </del>		
- 1		ā 1		CABLE ASSY RF		- 1		MA	Â.				62	c	128700	
		3 1		CABLE ASSY RF	$\vdash$	~		MA	R			_			120800	
		šΙ		CABLE ASSY RF W16W11	Ιİ	- (		MA	R			07	62	c		0120178
	OTES CHANGE TO			47	ш	<u> </u>	1787	rin.	17.1		22	41.	04		120900	<u>0120123                                 </u>

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P	RAWING	_ L1	s٦	MARINER	R ·	62	FLI	GHT	N	JMERIC	AL			PAGE	60	4-11-6
1	DRAWING NO.	8A8# #0.	1	TITLE	1	3	70 1000 CORE	_	BAJO BAJO	NEE 702 8 (TEH THEB SEB.	atse.	# E  -0.	1144 414 70.	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	3020844		Т	CABLE ASSY RF W16W11	Τ	U	MOT	MA			33	07	62	C	128900	0120178
	3020851		╙	CABLE ASSY	L	Įυ	MOT	MA			33	07	62		121000	0120123
	3020851			CABLE ASSY	1	U	MOT	MA			33	07	62	C	129000	0120178
	3020852		<del> </del> _	CABLE ASSY	L	U	MOT	MA			33	0.7	62	С	121100	0120123
1	3020853		1	CABLE ASSY	1	U	MOT	MA	R		33	07	62	C	129100	0120178
_	3020894		<u> </u>	WIRE ELEC #25 HF	*	U	MOT	MA			33		1	0		
ı	3020897	I -		CABLE RF	*	U	MOT	MR	6		33			0		
_	3026830		_	WIRE GOLD PLATED	*	U	MOT	MA	R		33		i	0		l
. 1	3820894			WIRE ELEC #25HF	*	U	MOT	MA	R		33			0		
	3920192		⊢	CONTACT ELECTRICAL	↓_	V	MOI	MA			33	07	62	C	115000	0120310
	3920192			CONTACT ELECTRICAL	1	Įυ	мот	MA				07	62	C		0122726
	3920193			CONTACT ELECTRICAL	L	U	MOT	MA	R		33	07	62	C	115100	0120310
	3920222		1	CONTACT EL MIXER	1	υ	MOT	MA	R		33	07	62	C	110100	0120856
	3920298		Ц.	CONDUCTOR SECTION		U	MOT	MA	R		33	07	62	C	115200	0120310
	3920298	A		CONDUCTOR SECTION	Γ	U	MOT	MA	R		33	07	62	C		0122726
		A		CONTACT STRIP	1	U	MOT	MA	R		33	07	62	C		0120123
- 1		A	П	CONTACT ELEC MXR LWR		U	MOT	MA	R		33	07	62	C		0120170
_[	4220224	Α .		RETAINER SEMICONDUCT		U	MOT	MA	R		33		62	c		0120170
ł	4220323	A		RETAINER CABLE	*	υ	MOT	MA	R		33	•		Ö		01101
	4220814	В		RETAINER CABLE	*	יט	MOT	MR	6 I		33			ō		
1	4225212	В		SUPPORT CABLE RET	*	υ	MOT	MR	5		33			ō		
	4320233	A		ALIGNMENT DEVICE		υ	MOT	MA	R		33	0.7	62	č	115300	0120310
		A	1	ALIGNMENT DEVICE		C	MOT	MA	R		33			C		0122726
		A		BUSHING CONTACT ELEC	L	U	MOT	MA	R	1	33	07	62	Ċ		0120123
1	4620101	В	ı	BLOCK MTG SMALL VCO		J	MOT	MA	R		33	07	62	C		4620138
	4620105			BLOCK MTG XSISTOR		υ	TOM	MA	R.	1			62	c l		4620186
		В		BLOCK MTG XFORMER		υ	MOT	MA	R			07	62	C		4620152
		В		BLOCK MTG XFORMER		U	MOT	MA	R		33	07	62	c	113000	4620169
- 1		В		BLOCK MTG XFORMER		U	MOT	MA	R		33	07	62	C		4620179
	4620109			BLOCK MIG XFORMER		υl	мот	MA	R			0.7	62	c l		4620180
	4620109	В		BLOCK MTG XFORMER		U	MOT	MA	R		_	07		C		4620181
		В		BLOCK MTG RF DET		υl	MOT	MA	R			07		č l		4620161
1	4620111	В	$\Box$	BLOCK MTG XFORMER		υl		MA				07		C		4620149
		В	- }	BLOCK MTG XFORMER		ŭ	MOT	MA				07		ا د	123400	
Ţ	4620112	В		BLOCK MTG FREG		υ		MA				07				4620150
	4620113		- 1	BLOCK MTG XFORMER				MA			33			č i		4620117
T	4620114	8	-†	BLOCK MTG	$\dashv$	Ü		MA				07				4620162
	4620117			BLOCK MTG FREQ DIVID	,	-	мот	MA	R			- 1	62	c !		0120159
ŀ	4620122	В		BLOCK MTG				MA	R			07		č	111700	
1	4620122	8	- 1	BLOCK MTG				MA	R			07		č l		0120173

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_	AWING			MARINER I									PAGE	61	4-11-6	3
K	DRAWING NO.	****	3 5	TITLE	1	1173	1000		ELENSE 708 HNIOR (1154	*15*	PE.E		[:RAW]NG CONTROL		NEXT ASSEMBLY	•
l		BQ.	3.3		ــّـــ	-		\$1.01		110.	0.7	7.3	C	126400	0120199	Ť
ı	4620124	В		BLOCK MTG SECOND IF		U	MOT	MA		33		62	č		0120133	
		В	L	BLOCK MTG FREG	╀	ĮU.	MOT		R	33	07		č		0120148	-
		В	ļ	BLOCK MTG VCO TI	1	U	MOT		***	33		62	2		0120159	
l		8	ļ	BLOCK MTG FREG DIVID	+	U	MOT	MA	R	33	-		-		0120159	-
	4620150	В	1	BLOCK MTG FREG DIVID		U	MOT	MA	R			62	č		0120159	
ĺ	4620151	В	1_	BLOCK MTG FREQ DIVID	↓-	ļΨ	MOT		R	33		62	- <del>-</del>		0120159	-
	4620152	В		BLOCK MTG FREQ DIVID		U	MOT	MA	R	33	1 1	62	č		0120160	
	4620161	В	┖	BLOCK MTG SUBASSY	+	U	MOT	-	R	33		62			0120160	
	4620162	В	1	BLOCK MTG RF DETECTR	1	U	MOT	MA	R I	1		62	- č		0120175	
		В	┺	BLOCK MTG AUX OSC Q1	+	Ų	MOT	MA	R		07	62	Č		0120175	
	4620179	В		BLOCK MTG AUX OSC Q2	1	U	MOT	MA		1	- 6	62	C		0120175	
	4620180	В	1	BLOCK MTG AUX OSC Q3	+	10	MOT	MA	R	33	-	62	<del></del>	113600	0120175	
	4620181	В	1		1	10	MOT		R	33	07		Č		0120171	
		8	١.	BLOCK MTG FIRST	+-	tö	MOT	MA	R	33	07			116600	4620207	
	4620203		A	BLOCK MTG ANGLE		Iu	MOT		R	33	0.7		č	116700	4620207	
	4620204	ļ	A	BLOCK MTG XSISTR LG	+	H	MOT		R	33	07	62		127300	4620255	-
	4620204	A	İ	BLOCK MTG XSISTR LG	1	lu	MOT	1		33			č		0120123	
	4620205		╀	BLOCK MTG XFMR	+	Ηŭ	MOT	MA	R	33	07		C	119600	4620815	
	4620207	4	1	BLOCK SUBASSY MTG	1	1,,	MOT		R	33	07	62	Č		4620823	
	4620207		+-	BLOCK SUBASSY MTG BLOCK SUBASSY MTG	╁	ŭ	MOT	MA		33		62	<u> </u>	117100	4620825	_
	4620207	A	١.		ł	Ιŭ	1	1	R	33	1 -	62	č		4620207	
	4620209	<del> </del>	A		+-	10	MOT	+		33	+-	62	ζ	109800	0120855	
	4620223	A	1	BLOCK MOUNTING DIODE BLOCK MTG AGC AMPL		lü	MOT			33			č	127400	4620255	
	4620254	A -	╀	BLOCK AGC AMPL	+	ΗŬ	MOT			33		62		127200	4620845	
	4620255	A		BLOCK AGC AMPL		Ιŭ	MOT		1	33		62		127600	4620846	,
		A	+-	BLOCK AGC AMPL	+	٦ŭ	MOT	_		33	0.7	62	<u> </u>	127800	4620847	ī
	4620255	A		BLOCK AGC AMPL		Πű	мот	1		33	07	62	č	128000	4620848	3
	4620255	A	+-	BLOCK AGC AMPL	+	Ĭŭ	MOT	+		33		62	С	128200	4620849	į
	4620316	A		BLOCK MTG XFMR	1	Ιū	МОТ	MA	R	[33	0.7	62	ς	112200	0120173	3
	4620815	В	+	BLOCK MTG FREQ MULT	1	Ū	MOT	MA	R	3.3	07	62	C	119500	0120177	7
	4620818	В		BLOCK MTG FREQ MULT		ΙŪ	MOT	MA	R	33	0.7	62	C	119700	0120177	Z
	4620822	ТВ	-†-	BLOCK MTG FREQ MULT	rt	Īΰ	MOT	MA	R	33	07	62	Ç	119900	0120177	7
	4620823	B	-	BLOCK MTG FREQ MULT	1	lu	MOT	MA	R	33	0.7	6,2		116300	0120176	ż
	4620824		+	BLOCK MTG FREG MULT	_	ľ	MOT	MA	R	33		62	C		0120176	
	4620825	ĺв	-	BLOCK MTG FREQ MULT		i	MOT	MA	R _	33	0.7	62	C		0120176	
	4620826	B	+	BLOCK MTG FREQ MULT	$\top$	Tu	MOT	MA	R	33	07	62	C	117200		
	4620845	В	1	BLOCK MTG AMPL		Īι	MOT	MA	R	33	Q.7	6.2	<u> </u>	127100	0120174	4
	4620846	+=-	+	BLOCK MTG AMPL	1	Ti	MOT	MA	R	33	07	62	C	127500	0120174	4
	4620847	B		BLOCK MTG AMPL	1	-17	MOT	MA	ام	133	0.7	62	C	1 127700	0120174	4

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DR	AWING	L1	s t	MARINER R	: 6	52	FLIG	НТ	ΝŲ	MERIC	AL			PAGE	62	4-11-63	3
ı	DRAWING NO.	BATH HO.	15	TITLE	di Cile	3	\$5.000 \$5.000		B 4/01	1704 1762 1880 868.	8649. BIV.	** .	71.	DRAWING CONTROL STATUS		ASSEMBLY NEXT	8
č	4620848	8	$\vdash$	BLOCK MTG AMPL	_	Ū	MOT	MA	R		33		62	C	127900	0120174	П
	4620849	В	1	BLOCK MTG AMPL		U	MOT	MA	R		33	07	62	Ç	128100	0120174	
	4620854	В	1	BLOCK MOUNT AUX OSC		U	MOT	MA	R		33	07	62	C	113900	0120175	
Īċ	4620861	la	1	BLOCK MTG VCO		U.	MOT	MΑ	R		33	07	62	U	108600	4620863	
Ċ	4620863	В	$\vdash$	BLOCK MTG SUBASY VCO		U	MOT	MA	R		33	07	62	U	108000	0120148	
č	4622687		l <sub>A</sub>	BLOCK MTG XSISTOR		U	мот	MA	R		33	07	62	C	117400	4622695	1
١ <del>٠</del>	4622694	-	Ä	BLOCK MTG X16 MULT	_	ΙŪ	MOT	MA	Ř		33	07	62	C	117500	4622695	
	4622695	A	1	BLOCK SUBASSY MTG	ŀ	U	Імот	MA	R		33	07	62	C	119800	4620818	Ι.
1	4622695	A	t	BLOCK SUBASSY MTG	-	ΙŬ	MOT	MA			33	07	62	C	120000	4620822	Г
č	4622695			BLOCK SUBASSY MTG	ı	Ιŭ	MOT	MA				07			117300	4620826	
c		B	十	BLK MTG MTL XSISTR	Т	ŭ	MOT	MA			33	0.7	62	C	125600	4625204	
B	4625204			BLOCK MTG	ı	ŭ	мот	MA			33		62	Ċ	125500	0120171	1_
۱ĕ		B	+	BLK ASSY MOUNTING		ŭ	MOT	MA			33	07		C	125700	0120171	$\Gamma$
č		В		BLK MTR TRANSISTOR		Ιŭ	MOT	MA			33	07		Ċ	121500	0120123	1
┝		ië-	1	CAP VOLT VAR	*	Ü	MOT	MR			33	×	-	0			Т
1	4820888	le	1	SEMICON DEV DIODE	*	Ιŭ	мот	MA		l	33	1	!	0			1
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i	4820890	В	1	SEMICOND DEV 1N831	*	ľ	MOT	MA			33	1	i	ò	1		
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ı	4820892	10		TRANSISTOR 2N1711	_	lυ	MOT	MA		l	133	1	1	0	1		1
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L	4820896	١.	ĺ	CRYSTAL QUARTZ	Ι.	10	MOT	MA		ļ	33	0.7	62	Č	108700	0120148	ł
Ç	4822700		+	CRYSTAL UNIT QUARTZ	╀	U	MOT	+	- <u>^</u>		33	07	62	-		0120175	
C	4822700	Α		CRYSTAL UNIT QUARTZ	ı	1 -	MOT	MA			33	07	62	2		0120310	
В	4920225		+-	DISK CENTER TUNED	⊢	ĮŲ.	MOT	MA			33		62			0122726	
В	4920225			DISK CENTER TUNED		U	MOT	MA			33	10 /	102	0	110,00	10122120	1
ļ	6222688	_	-	ADHESIVE CONDUCTIVE	*	U	MOT		R		33	+	<del> </del>	l ŏ	<del> </del>	<del>                                     </del>	+-
1	6222689			ADHESIVE	1	1 -	1	MR		1	33		1	0			
╙	6222693	Α	4-	INSULATING COMPOUND	*	+-	4				1	+	!	0	+	<del> </del>	+
1_	6320611	B	1	DETECTOR RF	1	10	MOT		R		33		100	0	111200	0120170	
F	6320802		+-	CONVERTER FRED SCHEM	+-	U	MQI	MA		<u> </u>	33	-	162	Ċ		0120170	
F	6320803	1-		OSCILLATOR AUXILLARY		U	MOT	MA		l	33	07	62	1			
0	6320804		1	FREG MULTIPLIER	╀	Ų	MOT	MA		<del> </del>	33	07	62	خ		0120177	
١º	6320805			FILTER LOW PASS		10	MOT	MA		1	133	07	62	C		0120173	
LF	6320806		4	OSCILLATOR RADIO	┼-	ĮΨ	MOT	MA		-	33	07	62	<u> </u>		0120176	
	6320807			FREQ MULTI SCHEMATIC		ľ	MOT	MA			33	0.7		C			
0	6320808		1	AMPLIFIER DIREC SCHM	L	ĮŲ		MA		ļ	33	0.7	62	C		0120174	
D	6320809		1	AMPL INMEDIATE SCHEM	1	U		MA		1	33	0.7	62	5		0120172	
F	6320810	j₿	L	AMPLIFIER FIRST	1_	Įυ	MOT	MA	R	L	33	0.7	62	<u> </u>	125800		
• •	ENOTES CHANGE	70 PREV	1005	LIET												JPC 0513 JUP	4E 61

) F	RAWING	. L1	s t	CALIFORNIA MAR I NER								ALIF.		PAGE	63	4-11-6	_
Ī	DRAWING NO.	BASH BO.	đ i	Alara	1	1	CO.E	84	BELSA MAJOI	1150 1150	GETP.		11.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	-
D	6320811	В	Т	DETCTOR SCHEMATIC	$\top$	Ìυ	MOT	MA			33		62	C	124800	0120160	-
=	6320812	В		FREQ DIVIDER	ŀ	lυ	МОТ	MA	R		33	07		Č		0120159	
	6322604			SCHEMATIC	*	U	MOT	MA	R		33			0	145650	25382	
	6325240	l		SCHEMATIC	*	lu	Мот	MA	R		33	l		0	149910	25284	
	6325240		Г	SCHEMATIC	*	U	MOT	MÃ	R		33			0	164410	25284	
	6325241	l		SCHEMATIC	*	ŀυ	МОТ	MA	R		33			ō	160110	25318	
	6325241		Г	SCHEMATIC	*	ΙŪ	MOT	MA	R		33		1	0	162510	25318	
	6325242	l		SCHEMATIC	*	lu	мот	MA	R		33			Ö	150610	25297	
	6325242			SCHEMATIC	*	Ū	MOT	MA	R		33	-	$\vdash$	0	159810	25297	
	6325242	l		SCHEMATIC	*	lυ	MOT	MA	R		33			o i	162210	25297	
_	6325242		П	SCHEMATIC	*	ΙŪ	MOT	MA	R		33			Q	165010	25297	
	6325243		П	SCHEMATIC	*	lυ	Імот	MA	R		33		1	ō	153410	25374	
	6325243			SCHEMATIC	*	ΙŪ	MOT	MA	R		33		$\rightarrow$	0	161210	25374	
-	6325243		H	SCHEMATIC	*	lυ	Мот	MA	R		33		1	o l	162710	25374	
	6325243		1	SCHEMATIC	*	Ū	MOT	MA			33	$\neg$	-	ŏ	165710	25374	
	6325243		H	SCHEMATIC	*	Ιŭ	мот	MA		i	33			ŏ	166810	25347	
	6325244		Н	SCHEMATIC	*	ΙŪ	MOT	MA			33		_	ō	149610	25278	
	6325245			SCHEMATIC	*	Ιŭ	,	MA			33			o l	150210	25287	
	6325246			SCHEMATIC		ΙŪ	MOT				33		-	0	149210	25275	
	6325246		1	SCHEMATIC	1*	l.	мот	MA	R		33	į	ŀ	ŏ	164310	25275	
	6325247		П	SCHEMATIC	*	Ιŭ	MOT	MA		-	33		-	0	157010	25335	
	6325248		li	SCHEMATIC	*	Ιŭ	мот	MA			33	i	- 1	ŏ	154810	25281	
	6325249		Н	SCHEMATIC		Ŭ	MOT	MA			33			ŏ			
	6325250			SCHEMATIC		U	MOT	MA			33	1	- 1	0	158310	25366	
┪	6325251			SCHEMATIC		Ü	MOT	MA			33			0	151310	25328	
	6325252			SCHEMATIC	·	U	MOT	MA			33	ĺ			152810	25364	
-	6325253			SCHEMATIC	*	u	MOT	MA			33		-	0	156210	25325	
	6325254			SCHEMATIC	*	ŭ	MOT	MA				- 1		- 1	158010	25362	
-	6325255	-	$\vdash$	SCHEMATIC	*	Ü	MOT	MA	R		33		$\rightarrow$	0	155810	25322	
ı	6325256			SCHEMATIC	)	_	MOT	MA			33	į		٥	152310	25363	
-	6325257		-	SCHEMATIC	*		MOT	MA			33		-+	0	160710	25360	
	6325257			SCHEMATIC	1.		MOT	MA		- 1	1	- 1		- 1	161110	25361	
+	6325257		$\vdash$	SCHEMATIC	+		MOT	MA	R		33		-+	0	162610	25361	
١	6325258			SCHEMATIC			MOT	MA	R		33	Ì		0	166710	25361	
-	6325259		$\vdash$	SCHEMATIC	*		MOT						-+	0	165410	25350	
١	6325259			SCHEMATIC	*	U		MA		ł	33		- 1	0	155210	25291	
-	6325259			SCHEMATIC	*	U	MOT	MA			33			0	159710	25291	
-						U	MOT	MA	- 1		33	- 1		0	162110	25291	
-4	6325259			SCHEMATIC	*	U	MOT		R		33			Q	164610	25291	
	6325259			SCHEMATIC			MOT	MA			33	!	i	0	166410	25291	
DE	6325260			SCHEMATIC	*	ш	MOT	MA	RΙ		33		- 1	a 1	161810	25288	

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) F	RAWING	. L1	S T	MARINER	R	62	FLI	GHT	Νŧ	JMERIC	AL			PAGE	64	4-11-6	3
į	DRAWING NO.	BALE BO.	15	TITLE	å	į	V1 = 001		PAJO	16 FOR 1 11 FM 1 YHED 16 B.	hese.		1418	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
	6325260		T	SCHEMATIC	*	Ū	MOT	MA	R		33			0	164510	25288	t
_	6325260	L	L	SCHEMATIC	*	ļψ	MOT	MA	R		33	L	1	0	166310	25288	١
	6325261		l	SCHEMATIC	*	Ū	MOT	MA	R		33			0	157410	25341	1
_	6325262		<u>L</u> .	SCHEMATIC	*	U	MOT	MA	R		33	l		0	153210	25365	
	6325263			SCHEMATIC	*	Ū	MOT	MA	R		33			0	151710	25338	
_	6325354	<u>l</u>		SCHEMATIC	*	U	MOT	MA	R		33		!	0	153910	25384	
	6325356			SCHEMATIC	[₩	ĪŪ	MOT	MA	R		33			0	164910	25294	•
	6325357	L		SCHEMATIC	*	ļυ	MOT	MA	R		33		;	0	156810	25332	
	6420882	В	1	PLATE TUNED CAVITY	*	U	MOT	MA	R		33			0			
	6420291	Ą	L	PLATE END TUNED CAVE	1_	U	MOT	MA	R		33	07	62	C	115500	0120310	
	6420291	Α		PLATE END TUNED CAVE	1	Ū	MOT	MA	R		33	07	62	C		0122726	٠
	6420882	В	_	PLATE TUNED CAVITY	L	U	MOT	MA	R		33	07	62	C	115600	0120310	
	6420882	В		PLATE TUNED CAVITY	ĺ	U		MA	R		33	07	62	C	118900	0122726	
	6922594		L	LOGIC DRAWING		V	MOT	MA	R		33			0	147850	4600309	
	6922594		1	LOGIC DRAWING	*	U	MOT	MA	R		33			0	163110	4600311	
_	6925266		L	LOGIC DRAWING	*	U	MOT	MA	R		33		<u> </u>	0	158750	4600310	
		Α	1	FORM COIL	Τ	U	MOT	MA	R		33	07	62	С	121600	0120123	
	7420838	8	_	FORM COIL	L	U	MOT	MA	R		33	07	62	C	111400	7720835	
		Α		FORM COIL X16		U	MOT	MA	R		33	07	62	C .	120200	0120177	
L	7720835	В	F	TUNING ASSY	-	Ü	MOI	MA.	_R		33	0.7	62	С.	111300	0120170	
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į	L213			RAIL		U	NOR	MA	R		34			0	037300	4800349	1
	106100	PL		AUTOPILOT ELECTRONIC	L	υ	NOR	MA	_R		34	05	62	J	131400	106100	
Ì	106100	-		AUTOPILOT ACTUATOR	Г	U	NOR	MA	R		34		62	J		4300204	
	106101			AUTOPILOT ELECTRONIC	1_		NOR			1		0.5	62		131500	106100	
	106102		В	TB AUTOPLT ACTR ELEC		U		MA		T		02	62	J	131600	106100	
_	106103		ļ	ART WORK	<u> </u>	Ų	NOR	MA			34	02	62		131700	106102	
	106104		Ĺ.,	ART WORK		U		MΑ				02	62	J	131800	106102	
_	106105			SUBCHASS AUTOPILOT	L_	U	NOR	MA	R		34	02	62	J	131900	106100	
1	106106		Α	SLEEVE INSUL AUTOPLT	1	U.	NOR				34	02	62	J	131200	106100	l
_	106107			WASHER-INSUL AUTOPLT		U	NOR				34	0.2	62	ال	131300	106100	
	106118			SUBCHAS ANTEPHP	l	U,	NOR			l			62	J	132200	106130	
Ц	106119			SERVO ANT DRIVE ASSY	Ĺ.	Ų	NOR				34			J	132300	106130	
1	106120			SPACER ANTEPHP SERVO	Ι,	U	NOR						62	J	132800	106119	
	106121			SHIELD ANTEPHP		υ	NOR				34			J	132400	106119	
	106122			SPT ANTEPHP SERVO		U	NOR		R	ł		02	62	J	132500	106119	1
	106123		A.	CPLG ANT&PHP SERVO		$\supset$	NOR	MA	R		34	02	62		132600	106119	I

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	DRAWING NO.	4150		TITLE	ď	E C	VE 2000		BALLAS BAJOS	27 C M	82 LF.	<u> </u>	141	DRAWING CONTROL STATUS		HEXT ASSEMBLY	
	106124	<del>-</del>	11.	GUIDE ANTEPHP SERVO	F	Ū	NOR	MA		**** ***.	34	0.2	62	312103	132700	106119	٠.
,	106125	1	ľč	CAP SEAL ANT&PHP	1	Ιŭ	NOR	MA			34	02	62	Ĵ	132900		
)	106126	A	B	INS ANTEPHP ELECT	1	ΙŬ	NOR	MA			34		62	J	133000	106130	
	106127	٦	IĂ.	XMER ASSY ANTEPHP	1	Ιŭ	NOR	MA	R		34		62	ر ز	133100	106130	١
	106130	PL	tc	ANT SERVO ELECTRONCS	1	Ū		MA	R		34	02	62	)	133200	106130	1
	106130	-		ANT SERVO SUBASSY		Ιū	NOR	MA	R		34	0.2	62	j	132100	4300205	١
_	106131	-	ĪĒ	ANT SERVO SUBASSY	$^{-}$	Ū	NOR	MA	R		34	0.2	62	J	133300	106130	1
5	106132		1	TERM BD ANT SERVO	-	lu.	NOR	MA	R		34		62	ار	133400	106130	١
-	106133		┿	ART WORK	$\vdash$	ĬŬ	NOR	MA	R		34		62	J	133500	106132	
	106134		1	ART WORK	1	Ιŭ	NOR	MA	R		34	0.2		ار	133600	106132	1
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	6141500	3	╁	RIB	╁	U	RAN	MA	R		33			-0-	129300	4300194	-
	6141500	4		TUNING BLOCK		U	RAN	MA	R		33		,	0	129400	4300194	
-	6141501		+-	RESONATOR	+	Ü	RAN	MA	R		33	-		0	129500	4300194	-
	6141502			TEFLON SUPPORT		ŭ	RAN	MA	R		33	1		o l	129900	4300194	
-	6141502		+	FILTER HOUSING	†	Ū	RAN	MA	R		33		-	0	129700	4300194	_
	6141502		1	COVER		Ü	RAN	MA	RΙ		33	l	, ,	0	129800	4300194	
	6141502		1-	DISPLAY FILTER FL204	Î	u	RAN	MA	R		33			0	129600	4300194	
	6141504	1	1	DIELECTRIC SUPPORT		ŭ	RAN	MA	R		33			0	130100	4300194	
-	6141504	2	+-	ANT COUPLING ASSY	Т	Ü	RAN	MA	R		33			0	130200	4300194	
	6141504		1	SET SCREW		Ū	RAN	MA	R		33	ļ	1	o '	130300	4300194	
_	6141504	4	+	SUPPORT ROD	T	U	RAN	MA	R		33			0	130400	4300194	
	6141504	15	1	RESONATOR SHAFT	1	ŀυ	RAN	lma.	R		33	1	1 1	0	130500	4300194	
	6141504	6	+	SUPPORT NUT	1	Ū	RAN	MA	R		33	1		0	130600	4300194	
	6141504	17	1	FILTER ASSY FL204	1	Ū	RAN	MA	R		33		1	0	130000	4300194	
_	6151002	2	†-	CD ANTENNA CPLR 2A15	1	U	RAN	MA	R		33			0	006200	4100306	Ţ
	1:5:::::		1	EXTENSION	*	ΙŪ	RAN	MA	R		33		!	0			
÷	6151002		1	CENTOR CONDUCTOR ASY	*	Ū	RAN	MA			33		1	0			
		1.		SCREW CONN LOCK	*	lū	RAN	MA	R		33		i	0		L	
	6151002		1	MOUNTING PLATE	*	Ü	RAN	MA			33	T		0		I	
	6151002		1	SCREW MODIF	*	Į.	RAN	MA	R		33		!	0			
	6151002		Τ.	INSULATING SPACER	*	Ū	RAN	MA	R		33		:	0			
١	6151002	9	1	SPACER	*	U	RAN	MA	R		33	L		0			
ς-	6151003	0	T	EXTENSION	*	U	RAN	MA	R		33			0			
3	6151003	1		INSULATING SPACER	*	lu	RAN	MA	R		33	1	i				
3	6151003	3	T	INSULATING SPACER	*	U	RAN	MA	R	-	33			0			
3	6151003	14	1	INSULATING SPACER	*	10	RAN	IMA.	R		133	1	1	0			

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	DRAWING NO.	BATH BO.	4	TITLE	1	3	*****	FM	4 17 EM	8119. 841.	PALIAGE PATE	DRAWING CONTROL STATUS		MEXT	i
3	6151003	5	+-	INSULATING SPACER	_	Ι <del>ŭ</del>	RAN	MA R	7#88 \$10.	33	HO. YA.	0		<del> </del>	-
	6151003			RESISTOR HOLDER	*	Ιŭ	RAN	MA R	l	33		l o l		1	
,	6151003			RESISTOR ASSY	*	Ū	RAN	MA R		33		0		1	
	6151003		1	CONNECTOR	*	Ū	RAN	MA R		33				1	
3	6151003	9	T	INNER CONDUCTOR	*	u	RAN	MA R	1	33		0		1	
3	6151004	n	1	INNER CONDUCTOR	*	U	RAN	MA R		33		0		1	
	6151004		$\vdash$	COUPLER HOUSING	*	ΙŪ	RAN	MA R		33		0			
Ā	6151004	-	1	BEAD	*	Ιū	RAN	MA R		33		0		1	
	6151004		T	SLEEVE	*	Ιũ		MA R		33		0			
	6160500		1	CIRC & POWER MONITOR	*	Ιū	RAN	MA R	l	33		0		1	
ī	6160500		1-	INSULATOR	_	Ū		MA R		33		0		Ī	
	6160501		1	HOUSING LOWER	*	Ū	RAN	MA R		33		0			
	6160501		1	HOUSING UPPER	*	Ū	RAN	MA R		33		0		I	
	6160501	7-2	1	HOUSING	*	U	RAN	MA R	1	33		0		1	
-	6160501		t	BRACKET	*	Ū	RAN	MA R	†	33		o			١
	6160501			CONNECTOR	*	ĬŪ.	RAN	MA R		33		0			
÷	6160501		+	BRACKET SUPPORT	*	-	RAN			33		0			
	6160501	J -		CONNECTR SPEC TYPE N	*	Ιũ	RAN	MA R		33		0			
	6160501		+	HOUSING	*		RAN			33		0		1	
	6160501			HOUSING LOWER	<b> </b> *	Ιū	RAN	MA R	1	33		. 0		1	
-	6160502		1	SPIDER	*	ΙŪ	RAN	MA R	T	33		0			
3	6160502		į.	SPACER	<b> </b> *	lυ	RAN	MA R	1	33		l o l			
Ē	6160502		T	RESISTOR HOUSING	*	ΙŪ	RAN	MA R		33		0			
3	6160502	8	1	SPACER	*	lυ	RAN	MA R		33		0		ł	
	6160502			MOUNTING BRACKET	*	U	RAN	MA R		33		0			
ċ	6160502	0	1	MOUNTING BRACKET	*	lυ	RAN	MA R		33		0			
3	6160502	5	+	MAGNET	*	U	RAN	MA R		33		0	-		
3	6160502	4	1	FERRITE	*	U	RAN	MA R		33		0		1	
3	6160502		1	POLE PIECE	*	U	RAN	MA R		33		0			•
ı	6160503	4	1	LOAD SUBASSY	*	U	RAN	MA R		33		0		1	
Ť	6160503		1	CENTER CONDUCTOR	*	ĺυ	RAN	MA R		33		0		I	
3	6160503			TUBE ASSY	*	lu	RAN	MA R		33		0			
3	6160503			FLANGE	*			MA R	1	33		0		I	
ĺ	6160503		1	TUBE	*			MA R	1	33		0		1	
Ì	6160503		T	RESISTOR HOLDER	*	ΙÚ	RAN			33		0			
١	6160503		1	PLATE	<b>;</b> *	Ιŭ	RAN	MA R		33		0		1	
ζ	6160503		1	BEAD	*	Ū	RAN	MA R	T	33		0			
٩	6160503	0		LOCKING NUT	*	Įυ	RAN	MA R		33		0			
۹	6160503	3	1	SUPPORT	*	U	RAN	MA R		33		0		T	
4	6160504	16		DIODE		Ιo	RAN	MA R	1	33	1 !	lol		1	

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ו	RAWING	i LI	<b>S</b> 1	MARINER									•	PAGE	67	4-11-6	3
ï	DRAWING NO.	-	15	TIPLE	1	1	******	Т	erte.	111 #	2112		LIAGE	DRAWING	T	HEYT	=
Ξ.		Þa.	10.3	1	Ŀ	3	2005	-	RIAL	THEU SER.	***.	wo.		CONTROL STATUS		ASSEMBLY	- 1
В	6160504		1	INNER CONDUCTOR	*	U	RAN	MA	R		33			0		1	٦
<u> </u>	6160504		┖	INSULATOR	*	Ψ.	RAN				33	<u> </u>	<u> 1</u>	0	1	i	
٩.	6160504	1 -	ł	INSULATOR	*	U	RAN				33	[		0			Τ
4	6160504		L	INNER CONDUCTOR	*	U	RAN	MA			33		!	0	ł		
5	6160504		1	COUPLER HOUSING	*	U	RAN	MA			33		П	O			_
A			l.,	PLATE	*	U	RAN	MA	R	'	33	l		0		1	
	6160504		Г	HOUSING MACH	*	U	RAN	MA	R		33			0			-
	6160504		I.	COVER	*	ļυ	RAN	MA	R		33	!	!	0	l .	ļ	
	6160505	9	Т	LOAD ASSY	*	U	RAN	MÁ	R		33		1	0	<del>                                     </del>	·	-
2	6160505	0		SPIDER ASSY	*	lu	RAN	MA	R		33			Ō	i .		
τ	6160505	7	Г	COVER	¥	ĺυ	RAN	MA	R		33	_	1	ō		<del></del>	-
٩	6160505	8		TUNING SCREW	*	Ιŭ	RAN	MA			33			ő	İ		
3	6160506	5	1	COUPLER SUB-ASSY	*	Ū	RAN	MA			33	-	<del>! - </del>	0	<del>                                     </del>	<del> </del>	-
١	6160506	7	l	SPACER	*	ľŭ	RAN	MA			33			0	ļ		
_	6160506	6		DIRECTIONAL CPLR ASY	*	Ü	RAN	MA			33	_	╁	<del>-</del>		<del> </del>	-
4	6160506	9	İ	SCREW MODIF	*	1 -	RAN	MA			33			0	1		
,	6160508	7	t	POLE PIECE	*	ŭ	RAN	MA			33	_	<del>-</del>	- 0		<u> </u>	
3	6160508	A		SHUNT	12	ш	RAN	MA					]		ļ		
	6160509		-	CIRC & PWR MON SCHEM	12		RAN	MA			33		1	0		L	_
	6160510	17		CONTACT ASSY	*	ŭ	RAN			i			1 1	0		1	
		6	Н	CONTACT PLATE	*	U	RAN				33		-	0		ļ	_
		5		CRYSTAL SLIP	1	1 -		MA			33		: 1	0			
		3	Н	CUP	*			MA			33		-		ļ		_
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	6160512		-	CONTACT PLATE	*		RAN				33		$\Box$	_ 0	ļ. ——.	<u> </u>	_
				INSULATION	*		RAN	MA			33		1 1	0		1	
	6160512		L	CRYSTAL CAP	*		RAN				33			0		1.	
		7-1		MONITOR PROBE ASSY	*		RAN			ļ	33		1	0			
	6160513			HOLDER	*		RAN				33			_ 0 _			
	6160513			RESISTOR HOLDER	*		RAN				33		1 1	0			1
	6160513		Щ	CONNECTOR	*		RAN				33			0	l	<u>L_</u>	
	6160513	1		TERMINAL BOARD MODIF	*	U	RAN	MA	R		33			0			
	V100017			SCREW-MACHINE	-	U	RYN	МА	R		35	0.4	62		006400	V100050	A
1	V100017			SCREW-MACHINE ROUND	$\vdash$		RYN					04		<del></del>		V100050	
1	V100050			SOLAR PANEL			RYN				35			<b>J</b>		4100306	
	V100050			SOLAR PANEL				MA			35			<del></del>			1
	V100051		"	SPLICE STRIP CENTRAL			RYN	MA	R					J.		4100306	1
_	NOTES CHANGE TO					v	ra j N	MΑ			22	04	621	J	L.006500	V100050	1

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	DRAWING NO.	80. 844H	\$ 5	TITLE	ŧ	į	VEHPOR COOR	-		THOU BEG.	BESP.	#0.	146 E	DRAWING CONTROL STATUS		MEXT ABSEMBLY
_	V100051		Т	SPLICE STRIP CENTRAL	1	lυ	RYN	MA		1	35	0.4	62	J	009700	V100050
	V100052		В	BUSHING	*	lu	RYN	MA	R		35	01	63	رَ		V100050
	V100052		В	BUSHING	*	Ü	RYN	MA	R			01	63	-		V100050
1	V100053		ļ	DOUBLER ASSY		U	RYN	MA	R		35		62	Ĵ		V100050
	V100053			DOUBLER ASSY		Ü	RYN	MA	R				62	J		V100050
	V100057		Ε	BEAM ASSY	*	Ū	RYN	MA	R				63	Ĵ		V100050
)	V100057		Ē	BEAM ASSY	*	U	RYN	MA	R		35	01	63	J		V100050
	V100059			GUIDE RAMP SHROUD	ŀ	υ	RYN	MA	R		35	04	62	J.		V100050
7	V100059		Г	GUIDE RAMP SHROUD	Г	U	RYN	MA	R		35	04	62	J		V100050
)	V100061			RAMP GUIDE SOLAR PAN	l	lυ	RYN	MA	R		35	04	62	j		V100050
)	V100061		Г	RAMP GUIDE SOLAR PNL		ΙŪ	RYN	MA	R		35	04	62	Ĵ		V100050
J	V100062		l	SOLAR PANEL	l	lυ	RYN	MA	R		35	lio.	62	j		4100525
						_		-	_							
	449101			PCB SW MODULE UPPER	H	U	ΤI	MA			33	-	$\vdash$	0	172100	449104
	449102			SWITCH HIGH LEVEL	L	v		MA	R		33		Ш	0	174200	457763
	449103			PCB LO LEVEL SWITCH	Ì	U	TI	MA	R		33			0	172200	449104
	449104		_	SWITCH LOW LEVEL	L.	V.	TI	MA	R		33		-	0	172000	457789
:	449104		١. ا	SWITCH LOW LEVEL		U	TI	MA	R		33			0	179800	460073
,	457738 457739			GROMMET TEFLON #1	ш	U	Ť I	MA	R		33		:	0	175000	457782
				GROMMET TEFLON #2		U	ΙŢ	MA	Ŕ		33			0	172300	449104
	457740			INSULATION SH ELECT	_	U	Τl	MA	R		33			0	172400	449104
3	457740		Α	INSULATION SH ELECT		U	ΤĪ	MA	R		33			0	175100	457782
_	457744			SHIELD SWITCH		U	TI	MA	R		33			. 0	172500	449104
	457744			SHIELD SWITCH		U	ΤI		R		33			0	175200	457782
	457762		L	PCB DECKS C&D		U	ŤI	MA	R		33		i	0	174300	457763
,	457763			SOLID STATE DKS CGD		U	ŢŢ	MA	R		33		!	0	174100	460805
	457768		L	PCB DECKS AGB		U	TI	MA	R		33			0	175800	457769
,	457769		Ιİ	SOLID STATE DKS A&B		U	ΤI	MA	R		33		i l	0	175700	460805
Ц	457770		L	SCHEM SW LOW LEVEL		IJ	TI	MA	R		33			0	172600	449104
	457775			PCB UNIV BISTABLE #1		U	ΤI	MΑ	R		33			0	174500	457777
Ц	457776		Ц	PCB UNIV BISTABLE #2		U	ΤI	MA	R		33			0	174600	457777
	457777		A	UNIV BISTABLE MODULE		U	ΤI	MA	R		33	. 7	1 7	0	174400	457763
:	457777			UNIV BISTABLE MODULE		U	ΤI	MA	R		33			0	175900	457769
	457777		A	UNIV BISTABLE MODULE		C	ŢΙ	ΜÁ	R		33			0	176700	460023
_	457777			UNIV BISTABLE MODULE		υ	TI	MA	R		33			0	177100	460025
	457777			UNIV BISTABLE MODULE		Ç	ΤI		R		33			0	173000	460037
:	457777		A	UNIV BISTABLE MODULE		υl	TI	MA	R	İ	33			Ó	178400	460049

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DF	AWING	LI	s t	, MARINER F	٠ ١	62	FLI	3HT	NI.	JMERIC	.AL		PAGE	69	4-11-6:	3
;	DRAWING NO.	BASH BO.	::	TITLE	ŧ	197	\$1 × 94 8			31 for 1   YE + 7 HER SER.	## SP.	PATE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	1
5	457777		A	UNIV BISTABLE MODULE	H	Ū	TI		R	7412 114.	33		0	179900	460073	H
Ιč	457777		A	UNIV BISTABLE MODULE	ļ	Ü	TI	MA	R		33		0	169900	460892	1 1
ć	457777		A	UNIV BISTABLE MODULE		U	TI	MA	R		33		0	170300	460894	
Īċ	457778		ľ	SCHEM UNIV BISTABLE	1	U	TI	MA	R		33		0	174700	457777	
c	457779		$\vdash$	SCHEM HI SPD BINARY		U	ΤI	MA	R		33		0	174800	457777	
В	457780			PCB SW FLIP FLOP LO		U	ΤI	MA	R		33		0	175300	457782	
В	457781		T	PCB SW FLIP FLOP UP		U	ΤI	MA			33		0	175400	457782	
c	457782		1	SWITCH FLIP FLOP		U	TI	MA	R		33	li_l	0	174900	457763	Ш
1	457782		1	SWITCH FLIP FLOP		Ü	TI	MA			33		0	176000	457769	
l c	457782			SWITCH FLIP FLOP		Ų	ΙŢ		R		33		0	179000	460899	L
~	457783		Г	SCHEM SW FLIP FLOP	ŀ	U	TI		R	l	33	l 1 i	0	175500	457782	il
F	457788		<u> </u>	PCB DECKS E&F	L	U	TI		R		33		0	172700	457789	-
D	457789		Ι	LO LEVEL SWS DKS EGF	ı	U	ΤÎ		R	i	33		0	171900	460806	1 1
R	457790			SCHEM LO SPEED CTR	L		TI	MA			33	<u> </u>	0	172800	457789	$\perp$
R	457790			SCHEM LO SPEED CTR	1	U	TI	MA		İ	33		0	173100	460037	
F	457795			PCB AMPL LOW BAND	L	U	ΤI	MA			33		0	171000	457796	<del></del>
D	457796		Ī	AMPLIFIERS LOW LEVEL	1	Ū	ΤI	MA		İ	33		0	170900	460807	
R	457797			SCHEM AMPLS&SIG COND	上	U	ΤI	MA			33		0	171100	457796	
R	457797		Γ	SCHEM AMPLS&SIG COND	ı	Ū	ΤI	MA			33		0	171300	460083	
В	460005		L.	PCB MATRIX PN GEN LO	┺	U	II		R		33		0	180100	460007	
В	460006			PCB MATRIX PN GEN UP	ı	1 -	ΤI		R	1	33		0	180200	460007	
C	460007		L	MATRIX PN GENERATOR	┖	<u>U</u>	TI	MA			33		0	180000	<u>څ46007</u>	$\vdash$
C	460008		ı	SCHEM MATRIX PN GEN	ı	U	TI		R	ļ	33		0	180300	460007	
В	460009		L	PCB LO SPEED CTR LOW	ــــ	U			R		33		<u> </u>	173300	460011	1-1
В	460010		1	PCB LO SPEED CTR UP	1	U	ΤI	MA			33		0	173400	460011	
5	460011		1	MATRIX LO SPEED CTR	1	U	II		R		33	1	0	173200	460037	
2	460012		ı	SCHEM LO SPEED CTR		U	TI	MΑ		j	33	1	0	173500	460011	
F	460022		↓	PCB BLIP REGISTER #1	1	U	TI	MΑ	. २ R	<del> </del>	33	<del> </del>		176800	460023 460803	
10	460023			BLIP REGISTER #1		U	T I	MA			33		0	176600	460025	
F	460024		╀	PCB BLIP REGISTER #2	+-	ĮŲ.	TI	MA			33	1		177000	460803	
D	460025			BLIP REGISTER #2	1	U	TI			i			0			
R	460026		╀	SCHEM BLIP REGISTER	<b>∔</b> -	U	Ti	MA	R		33	ļ	ō	176900	460023 460025	
R	460026			SCHEM BLIP REGISTER		U		MA MA		}			0	181300	460025	
F	460027		<del> </del> -	PCB BUCKING PWR SUP	+-	lu u	TI	MA		<del> </del>	33 33	<del> </del>	<u>0</u>	181200	460804	
0 0	460028		Ì	BUCKING POWER SUPPLY	1	U	Ti	MA			33		3 3	181400		
R	460029		+	PCB LO SPEED COUNTER	+	Hü	TI	MA			33	+	5	173600	460020	
				LOW SPEED COUNTER	1	U	Τi	MA		1	33		0	172900		
0	460037	<u> </u>	+	MONOSTABLE FLIP FLOP	╀	lu U			R	<del> </del>	33	+-1		178500	460049	
F	460046 460048	l	1	PCB MASTER COUNTER			111		R	1	33		0	178600		
_	FROTES CHANGE T				_	10	114	LINE	, K		50	<del></del>		1 170000	JPL 0513 JUN	

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4~11-63 MARINER R 62 FLIGHT NUMERICAL PAGE 70 DRAWING LIST DATE DRAWING CONTROL STATUS HEXT ABSEMBLY 1 3 TERRIT 309. DRAWING NO. 800 G 5 MA R COUNTER MASTER U TI 178300 460802 460049 33 0 D MA R SCHEM MA CTREXFR REG SCHEM MA CTREXFR REG 33 33 178700 179100 460049 460061 MA R MA R 460061 1756<u>00</u> SCHEM DECKS A&B C&D 460062 460062 MA R 33 176100 457769 HEAT SINK PWR SUPPLY 181500 460804 460069 MA R MA R MA R 460072 PCB PN GENERATOR U TI PN GEN/FREGEMOD CKTY 179700 460801 180500 460073 181700 460076 460073 IT U 0 PCB POWER SUPPLY
POWER SUPPLY
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MARKING PN GENERATOR
MARKING BLIP REGS
MARKING TRANSFER REG
MARKING DECKS ABCD
MARKING DECKS E&F 460818 169500 460084 177500 460085 UTI MA R 33 0 MA R 460819 133 U MA R 169600 460034 177600 46008 33 33 COOOE 460820 460083 460821 177700 177800 169700 MA R MA R MA R 33 33 33 33 0 460065 UTI 460822 460085 460084 460823 MARKING AMPLIFIERS MARKING CONVERTERS 0 PCB COMPARATOR
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	DRAWING NO.	2451	1:	TITLE	<b>*</b>	5	V[#808	1	PALEA	SE FOR	P E S P.	111	IAIE IE	DRAWING		NEXT ASSEMBLY	T
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JPL TECHNICAL REPORT NO. 32-422, VOL. II

B. Mariner R 1962 Drawing List: Flight Numerical by Division

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Ī	4100354			BRKT INFRA RED RADIM	*	ŭ	JPL	MA	R				63	J		4100350	
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# JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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;	DRAWING NO.	PASH NO.	11		9.	CLANS	VE 1004		4 4/04	SC FOR	acs.		1454	DRAWING CONTROL		NEXT ASSEMBLY	-
F	600-66			DATA CONDIT LOGIC	*	1	ccc	MA	D.	1-00 560	32	*6.	111	O O		-	-
A	MR0001	l	1'	SPACE PROBE DWG LIST		10	CCC	MA			32	1		ŏ 1			1
<u>A</u>	MR0002		-	FLIP FLOP SCHEM BD#1				MA			32			ő		-	-†
A	MR0002	l		Fi IP FLOP FF #1	*	1	CCC			ļ	32			ŏ			1
<u>^</u> -	MR0005	<u> </u>	13	D-A STEP STAIR SCHEM	*	+	CCC	MA			32		-	ŏ		-	-
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<u>A</u>	MR0010			CRD GATE SCHEM	*		CCC.			_	32		ļ	0		<del> </del> -	4
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A	MR0011	ŀ	1	AND GATE AG4 #4	*	1 -	CCC			1	32		1	0			
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A.	MR0012			EMITTER FOLLOWER EF3	1	1.	CCC				32		i i	0		1	
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Д	MR0013		2	OR INVERTER	*	U	CCC				32			0			_
Δ.	MR0018		1	GATE SCHEM	*	1~	CCC	MA			32			Ċ			
A	MR0018	1	1	AND GATE AG5 #5	*	U	CCC	MA	R		32		1	0			
_	MR0025		1	CONVERT COMPAR SCHEM	1	U	CCC	MA	R		32			C			
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A	MR0028		2	CONVERT COMP INHIBIT	*		lccc				32	1	į	Ö			
Ā	MR0029		1-	CONVERT COMP OUTPUT	*		ccc				132	†	t	Č			_
A	MR0029		1	CONVERT COMP SCHEM	*	1 -	ccc	1		1	32		1	Č	1		
_		<del>-</del>	2	PLUS 6V REF SCHEM	*	+×	CCC	+	-		132	<del> </del>	ļ	0		-	_
Ą	MR0040	ł		&6V REF SUPPLY RS	*	1 -					32		i	اة			
A B	MR0040 MR0043	ļ	+	INTERFACE CIRC SCHEM	<b>↓</b> —	+~	CCC	MA		<del> </del>	32	ļ	1	- <del>0</del>		<b>†</b>	-
_		1	1,	DCS INTERFACE CIRC SCHEM	ł	-	lccc				32	1	1	Č		1	
В	MR0043	<u> </u>	11	RESET AMPL SCHEM	*		1000				32	†	ļ	0		<u> </u>	
A	MR0044	[	1		1	u	CCC			1	32		1	0			
<u>A</u>	MR0044	<b>├</b>	+	RESET AMPLIFIER	+	<b>→</b> —			_	<del> </del>		+	<del> </del>	0		<del> </del>	_
A	MR0046	1	١,	PIN # & COLOR CODE		U				1	32		1	0		į	
A	MR0048	ļ	11	PWR ON RESET PR#15	*		CCC	MA				-	<del> </del>	0	<del> </del>	<del></del>	
A	MR0048	l	1.	POWER ON RESET		1 -	CCC			1	32		1	t .	Į	i	
A	MR0054	L_		HI-SPEED SCHEM FFC		U		MA		ļ	3.2	-	:			<b>+</b>	_
A	MR0054			HIGH SPEED FLIP FLOP						1	32	ļ		. 0	-		
C	MR0061	1 1	10	LOGIC SUBCHAS 20A21	1 *	ΙŲ	lccc	MA	ρ	l	32	!		<u> </u>	l	(8) (812 111	_

DENOTES CHANGE TO PREVIOUS LIST

JPL 0513 JUNE 61

				CALIFORNIA IN	ISTIT	UTE	OF TE		LAE			CALIF				DATE LISTE	D
) F	RAWING	LI	s T	MARINER							-			PAGE	5	4-12-6	3
:	DRAWING NO.	811H HO.	4 5	TITLE	<b>1</b>	137	45 × B00			1 1 FCB 1 1 F E H 1 H E H I E F.	1240. 017.		1466	DRAWING CONTROL STATUS		HEXT ASSEMBLY	1
:	MR0062		8	LOGIC SUBCHAS 20A22	*	ΙŪ	CCC	MA	R		32	1	1	0		1	1
)	MR0063		5	BLOCK SUBCHAS 20A23	*	ΙŪ	ccc	MA	R		32	ļ	1	0		1	
	MR0064			LOGIC SUBCHAS 20A24	*	Ū	CCC	MA	R		32			0			_
	MR0065		3	CONVTR/INPUT SCHEM	*	U	ccc	MA	R		32					I .	
	MR0065		3	A/D CONVERT/INPUT	*	U	CCC	MA	В		32			0			_
	MR0066		2	37 PIN CON WIR 20A21		U	CCC	MA	R		32			0			
	MR0067		2	37 PIN CON WIR 20A22	*	U	CCC	MA	R		32			0		1	
_	MR0068		2	37 PIN CON WIR 20A23		1~	CCC	MA			32		<u> </u>	0			
١,	MR0069		2	37 PIN CON WIR 20A24			CCC				32		H	0			
	MR0070		2.	37 PIN CON WIR 20A21			CCC				32	ļ		0			_
	MR0071		2	50 PIN CON WIR 20A22		, -	CCC				32	ĺ	1	0			
_	MR0072		2	50 PIN CON WIR 20A23			CCC		$\overline{}$	L	32	<u> </u>		0		<del> </del>	
	MR0073		2	50 PIN CON WIR 20A24			CCC			i	32			0			
-	MR0074			PC BD ASSY 20A21	*		CCC				32			<u> </u>			-
	MR0075		2	PC BD ASSY 20A22		1 -	CCC				32			0			
-	MR0075		2	PC BD ASSY 20A23	1	+	CCC				32	<del> </del>		0		<del> </del>	-
ĺ	MR0077		14	PC BD ASSY 20A24  FLIP FLOP SCHEM BD#1							32 32			0			
					-			-									
	TBD0021			BOARD TERMINAL	*	U	GLN	MA	R		32			0			-
	TBD0022		L	BOARD TERMINAL	*	U	GLN				32			0			
	20869			RADIOMETER SCHEMATIC	1	U	GLN		1		32			0		4800339	
_	20869	PL_	Ш	POWER SUP RADIOMETER		Ų	GLN	MA	R		32				066500	4800339	
	20871			POWER SUPPLY	*	0	GLN	MA	-		32			0			
	118489		J	SPACE SCI WIRING DGM	*	U	JPL	MA	R		32	11.	62	J			-
	3155003		C	SHELL HALF UPPER		U	JPL	MA	R		32			J	033900	4800063	
	3155004		D.	SHELL HALF LOWER	$\perp$	U	JPL	MA			32			J	034000		
	3155005			TUBING	1	U	JPL	MA		ļ		08		J	034100		
	3155009			DOUBLER TUBING	<u>i</u> _	IJ	JPL	MA			32				034200		
	3155010			DOUBLER		U	JPL	MA		i	32			4	034300	4800063	
	3155011		В	DOUBLER NECK	+	U	JPL	MA			32			. J		4800063	
	3155540			CUP MOUNTING		U	JPL	MA	R			03		J		4800083	į
	3155541		!!	SPIDER	1	U	JPL	MA	R		32	03	انت		<u>U35200</u>	4800083	٠

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R	AWING L	15	T MARINER	R (	62	NUM	ERIO	CAL	. BY [	V 10			PAGE	6	4-12-6	- 3
	DRAWING NO. BASH	1	TITLE	1	1	*****			11 Faq	915P.	981	taje tri	DRAWING CONTROL	ĺ	NEXT ASSEMBLY	-
	3155543	-1°		۳	-	coot	100		TP40 169.		но.	"	STATUS	033300		_
ı	3155544	-	GASKET SEAL CAN SHIELDING		U	JPL	MA			32	03	1	J	033300	4800065	
	3155545	+	QUARTZ	┿	Ų.	JPL	MA	$\overline{}$		32	03	61	J	035300	<del>+</del>	
	3155546		PIN CONTACT	1	U	JPL	MA			32 32		61	J J	035400		
	3155547	+	PIN OFFSET CONTACT	+	U	JPL	MA			32		61	<del></del>	035600		
	4400063	١,	CB5 POWER SWITCHING	1	l.	JPL	MA			32		62	J			
	4500155	+	TEMP REFERENCE ASSY	╁╾	Ü	JPL		R	-			62	J	055000	4400046	
	4500156		SUPPORT INFRARED	1	Ĭŭ.	JPL	MA	R		32		62	J			
	4500157	+	SHIELD INFRARED RADM	t	Ιŭ	JPL	MA	R			0.7	62	<u>J</u>		4500155	
	4500158		MTG BLOCK TEMPERATUR	1	ŭ	JPL		R				62	Ĵ		4500155	
1	4500159	+	SPACER TEMP SENS!	T	ŭ	JPL	_	R		_		62	<del></del>		4500155	
ı	4500160		TEMP SENSISTOR SCHEM		Ū	JPL	MA	R				62	Ĵ		4500155	
1	4500160	$\top$	TEMP SENSISTOR SCHEM	t	Ú	JPL	MA	R.		32		62	J		4500161	
ı	4500161		CB ASSY		u	JPL	MA	R.		32		62	j		4500162	
1	4500162	1	CONNECTOR ASSEMBLY	1-	Ιū	JPL	MA	R	_			62	Ĵ		4500155	
ı	4800061	ı	SUPPORT RING PRE-AMP		Ū	JPL	MA	R			09		J		4800065	
İ	4800062	$\top$	COVER PRE-AMPL	T	Ū	JPL	MA	R		32	09	61	J		4800065	
ı	4800063		ION CHAMB STRUCT ASY		ú	JPL	MA	R		32	09	61	J		4800065	
1	4800064	+	NECK CHAMBER	1	ũ	JPL	МА	R		32	_	61	J		4800063	
ı	4800065	14	IONIZATION CHAMBER	*	Ü	JPI	MA	R		32	09		J		4100445	
1	4800068	1		T	Ü	JPL	MA			32	07		J	034900		-
	4800069		CB1 PRE-AMPLIFIER	1	ŭ	JPL		R		32		61	.i		4800065	
	4800083	1	QUARTZ INTEGRAT ASSY	1	Ū	JPL		R				61	J		4800065	
ı	4800084		HEADER BASE	1	ŭ	JPL		R			09		Ĵ		4800083	
1	4800085	T	RING CLAMPING SEAL	1	Ū	JPL	MA	R			09		<u> </u>		4800065	
I	4800250	E	SWEEP AMP SCHEMATIC		lυ	JPL	MA	R		32	0.5	62	ز		4800268	
1	4800257	1	MAGNETMETER SUPP ASY		U	JPL	MA	R		32	04	62	J		4100304	
J	4800260	1	SUBCHASS ASSY	L	u	JPL	MA	R		32	04	62	J	189900	4800261	
1	4800263 PL	TA			U	JPL	MA	R		32		62	J		4800263	
J	4800264	LE	PROGRAMMER SUBCHASS	L.	U.	JPL	MA	R		32	0.4	62	_J		4800263	
1	4800265	E	CB1 PC PROGRAMMER	Γ	U	JPL	MA	R				62	J	196400	4800263	•
l	4800266	. J A	CB2 PC PROGRAMMER	L	u	JPL	MA_	R		32	0.5	62	J.	196500	4800263	
1	4800268	A	23A3 SWEEP AMPL	Ι_	U	JPL	MA	R		32	04	62	J		4800296	
ł	4800269	4	SUBCHAS SWEEP AMP	1	υ	JPL	MA	R	ļ	32	04	62	J		4800268	
t	4800270	T	CB1 PC SWEEP AMPLIF		Ū	JPL	MA	R		32	12	61	J		4800365	
l	4800271		CB2 PC SWEEP AMPLIF		Įυ:	JPL	MA	R	- 1		12	61	Ĵ		4800366	
t	4800273	1	SPACER SOLAR CORPUS	Ţ-	U	JPL	MA	R		32	12	61	J		4800290	
l	4800274		STUD SOLAR CORPUSCUL	L	U.	JPL	MA	R				61	J.		4800290	
t	4800275		GROUND PLANE SCRE	Ī	U	JPL	МА	ĸ		32	-		0	191000	4800290	
I	4800276	ΙE	GROUND PLANE ENTRAN		Ū:	JPL	MA	E		3.2	12	6.1	ال	191100		

_			- <b>-</b>	JET PRO CALIFORNIA INS MARINER F	TIT	UTE	OF TEC	HNOL	OGY	, PASADI	NA, C			PAGE	7	4-12-6	
R	DRAWING NO.	LI	\$ T	TITLE	1 5	197	14 100			14 708	PF1F.	-	TASE	DRAWING CONTROL STATUS		HEXT	-
-	4800277		1	COLLECTOR SOLAR CORP	H	u	JPL	MA	R	THEU 157.	32	1.2	6.1	J J	191200	4800290	ā
	4800278		Â	SUPPRESSOR SOLAR COR		Ιŭ	JPL	MA	R		32		61	j l	191300		
	4800279		1	INSULATOR DEFLECTION	1	u	JPL	MA	R		32		61	Ĵ.	191400	4800290	:
	4800280		la l	GROUND PLANE EXIT		Ιŭ	JPL	MA	R		32	12	61	ا ز	191500	4800290	٠
	4800281		A	INSULATOR SUPPRESSOR		U	JPL	MA	R		32	12	61	J	191600	4800290	٤
	4800282			INSULATOR CHANNEL		ĺυ	JPL	MA	R		32	11	61	ار	191700	4800290	٠
_	4800283		1-	INSULATOR CHANNEL	-	Ū	JPL	MA	R		32		61			4800290	
	4800284			INSULATOR SUPPRESSOR		ľů	JPL	МА	R		32	11	61	- J		4800290	
	4800285		A	SHIELD COLLECTOR		Ŭ	JPL	MA	R		32	12	61	J		4800290	-
- 1	4800286		$ ^{\sim} $	PLATE GROUND PLANE		Ĭŭ.	JPL	MA	R		32	11	61	ا ر		4800290	G
	4800287		1	PLATE GROUND PLANE	1	ŭ	JPL	MA	R		32	11	61	<b>y</b>		4800290	7
	4800288		1 !	DEFLECTOR PLATE ASSY		lŭ.	JPL	MA	R		32	11	61	ı l		4800290	
	4800289		$\vdash$	DEFLECTOR PLATE ASSY	1	ŭ	JPL	MA	R		32	11	,	J		4800290	
	4800290		A	DEFLECTION PLATE ASY	1	Ιŭ	JPL	MA	R		32		61	ĭ !		480026	
-	4800296		c	SCIENTIFIC ELEC ASSY	t	Ĭΰ	JPL	MA	ĸ		32	_	62	J i		490050	
	4800297		В	CHASSIS ASSY		ľű	JPL	MA	R		32	01		J		480029	
	4800300		1	RADIOMETER ASSEMBLY	t	ŭ	JPL	MA	Ŕ		32	_	62	J		480040	
- 1	4800304		į l	WAVEGUIDE SUBASSY		Ιŭ	JPL	MA	R		32	01	62	j		480030	
-	4800305	-	+-	WAVEGUIDE SUBASSY 22	t	ŭ	JPL	MA	R		32		62	<u>_</u>		4800300	
- 1	4800306			WAVEGUIDE SUBASSY 15		l.	JPL	MA	R		32	01	62	1	063400		
-	4800307		1	WAVEGUIDE SUBASSY 15	†	ŭ	JPL	MA					62	J	063500	480030	
	4800308			WAVEGUIDE SUBASSY 22		u	JPL	MA	R		32	01	62	1		480030	
	4800308		A	BRACKET ASSY DETECT	H	ŭ	JPL	MA	R		32		61	J		480030	
				BRACKET DETECTOR		U	JPL	MA	R		32	12		j		480030	
	4800312		A	V-BLOCK ASSY RADIOM	+-	Ü	JPL	MA	R		32		61		063900		
			1			1 -	JPL	MA	R	İ	32	11	61	,	144700		
	4800314		+	ANGLE CONN MOUNTING ANGLE CONN MOUNTING	╌	U	JPL	MA	R		32		61			480029	
	4800314 4800334		<b> </b>	REFERENCE HORN		ľ	JPL	MA	R		32		62	١		480030	
	4800334		IÃ.	SUPPORT RADIOMETER	Ť	Ü	JPL	MA	R		32		61	J	064100		
	4800338		IÃ.	SUBCHASS PWR SUPPLY	ł	111	Jei	MA	R	ŀ	32		62	J.		480033	
-	4800339		Â	PWR SUPP SUBAY ENV	<del> </del>	ľu	JPL	MA	R	-	32		62	j		480030	
	4800341		12	ELECTROMETER SCHEM		li.	JPL	MA	R	1	32	0.4	62	,		480026	
Н	4800341		늄	CHAS PARTCL FLUX DET	t	U	JPL	MA	R		32	_	62	J		480035	
	4800342		A	COVER THERMAL PARTCL	1	ľű	1 '	MA	R		32			,		480035	
-		PL	TC.	CB1 PART FLUX DETECT	1	ΙŪ	JPL	MA	R		32		+		036500	480034	
	4800344	r L	A	CB1 PART FLUX DETECT	!	ľű	1	MA	R	l	32		62	ĭ		480035	
Η	4800345		†ê∙	PART FLUX DET SCHEM	+	Ü	JPL	MA	- <del> </del>		32		62	<u>J</u>	036600		
,	4800346		1	MULTI-OUTPUT TUBE	1	u		MA	R		32	01	62	J		480035	
-	4800347		A	SHIELD STAINLESS	+	ŭ	JPL	MA	- <del>}</del>		32		62	· · · <del>y</del> ······	037000	480035	
			A	SHIELD BERYLLIUM		lu	JPL	MA	B		142	0.4	1631	1	037200		
	4800349		1A	DILLER DENTERIOM	1	ΙŲ	1 J - L	11.0	r		176.	114	196		1 921500	J*0 U U	

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٠	DENOTES	CHANGE	TO	PREVIOUS	LIST

JET	PROF	ULSION	LABOR	ATORY
CALIFORN	IIA INSTIT	UTE OF TECH	NOLOGY, PAS	ADENA, CALIF.
MARIN	ER R	62 NUMER	RICAL BY	DIV

	DRAWING NO.	P49H	15	TITLE	1	3	*****		NUOR		4 E 1 P .		1454	CONTROL		NEXT	ł
	DRAWING NO.	<b>⊭</b> 0.	5.5		5	đ	2002	110		THEY IT.		<b>₽</b> 0.	10.	STATUS			4
	4800350			GUARD DETECTOR TUBE	ŀ	U	JPL	MA	R		32	01		J	037400	4800352	
L	4800351			PC1 PARTICLE FLUX	$oxed{}$	ļυ	JPL	MA			32	22	62			4800344	
j	4800352		Α	PARTICLE FLUX DETECT		U	JPL	MA				04	62	J		4100445	
	4800356			WAVEGUIDE SUBASSY		U	JPL	MA					62		066600	4800300	4
	4800357			WAVEGUIDE SUBASSY	Ì	U	JPL	MA	R	i		01	62	J	066700	4800300	.
	4800358		Α	ANGLE CONN MOUNTING		U	JPL	MA				03	62	J	066800	4800300	
ī	4800359		1	ANGLE CONN MTG RADIO	П	U	JPL	MA	R		32	11	61	J	066900	4800300	
	4800360			STRAP NOISE SOURCE		lu	JPL	MA	R		32	11	61	J	067000	4800300	
-	4800361		T	ANGLE COUPLER MOUNT		lu	JPL	MA	R		32	11	61	<del></del>	067100	4800300	
	4800362		A	BRACKET COUPLER MTG		lu.	JPL	MA	R		32	12	61	J	067200	4800300	. !
1	4800363		Ā	CLIP WAVEGUIDE RADIO		ΙŪ	JPL	MA	R		32	12	61	J	067300	4800300	_
	4800364		A	BRACKET TAPER MOUNT		Ū	JPL	MA	R		32		61	J	067400	4800300	
	4800365	_	1	CB1 ASSY SWEEP AMPL	1	Ť	JPL	MA	R				61			4800268	
	4800365	Ρı	1	CB1 SWEEP AMPLIFIER	1	lu	JPL	MA	R		32		61	Ĵ		4800365	
-	4800366		+-	CB2 ASSY SWEEP AMPL	t	ΙŬ	JPL	MA				12		<del></del>		4800268	
	4800366	DΙ	ΙΔ.	CB2 SWEEP AMPLIFIER	ı	ŭ	JPL	MA		i		0.5		Ĭ.		4800366	
	4800367	٠.	+~	BRACKET TRANSFORMER	╁╌	ŧΰ	JPL	MA					61	<u> </u>		4800268	
	4800368			CLIP RF CONNECTOR	l	ŭ	JPL	MA			32		62	Ĵ		4800300	
	4800371		ᆤ	DISARMING CONN SUBAS	╁	ŭ	JPL	MA					61	<u>J</u>		4800268	
	4800372			TRANSFORMER SWEEP AM	l	ŭ	JPL	MA			32		61	,		4800268	
			В	SHIELD THERMAL ASSY	*	ŭ	JPL	MA					62	J		4800300	
	4800376		10		١*	1 -		MA			32			-		4800300	
	4800377		┼-	15.86 22KMC CONT DWG	⊢	V	JPL	+					62	<u>. j</u>			
	4800381			PRE-AMP SUBASSY ENVL	1	U	JPL	MA			32		62	J		4800300	
	4800383		<u> </u>	DETECTOR ASY CONT DW	↓_	Įυ	JPL	MA				09		J		4800300	
	4800386			CONT DWG 15KMC FILTR	ı	U	1	MA				09		J		4800300	
	4800387	L		WAVEGUIDE SUBASSY 15	┖	U		MA			32		62	<u>J</u>		4800300	
	4800388	l	ì	CONT DWG 22KMC FILTR	1	U	JPL	МА				09		J		4800300	
	4800389	L		TERMINAL COLLECTOR	┖	Ų	JPL	MA				12		<u> </u>		4800290	
	4800391		1	SW ASSY ELECTROMETER	1	U	JPL	MA				12	61	J		4800261	
	4800392		L	SUPPORT ASY VIB REED	1	U	JPL	MA			32		52	<u>J</u>		4800256	
	4800393		1	BUSHING VIB REED CAP	1	U	JPL	MA			32		62	J		4800256	
	4800394		L	VIB REED CAPACITOR	1_	Ų	JPL	MΑ			3.2	01	62	J		4800256	
	4800395		Т	WAVEGUIDE ASSY 22		U	JPL	MA			32		62	J		4800300	
	4800396		A	CBI PLASMA ELECT	L.	U	JPL	MA			32	04	62	ر		4800251	
-	4800396	PL	A	CB1 PLASMA ELECT	Г	U	JPL	MA			32	0.5	62	J		4800396	
	4800397		A	CB1 PC PLASMA ELECT	1	U	JPL	MA	R		32	12	6:	JJ	193300	4800396	2
-	4800398	T	В	CB2 PLASMA ELECT	1	U	JPL	MA	R		3.2	04	62	J		4800261	
	4800398	Ρı	A	CB2 PLASMA ELECT	1	Ιù	JPL	MA	R		32	05	62	ــ لِـ		4800398	
	4800399		† <u>e</u>	CB2 PC PLASMA ELECT	1	U	JPL	MA				0.4		J		4800398	
	4800400	1	10	CB3 ASSY P ASMA ELEC	1	1.		MA			1		16.1	i .		4800261	

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*	DRAWING NO.	841H 840.	1 5	TITLE	1	3	C014	B4LE B4J0 B4BJ4L	11 FGB 11 FR THEY 15 F,	9810. 417.	#6.	TE.	DRAWING CONTROL STATUS	·	NEXT ASSEMBLY	1
Ā	4800400	PL		CB3 ASSY PLASMA ELEC	T	U	JPL	MA R		32	12	61	J	193900	4800400	1
<u>-</u>	4800401		1	CB3 PC PLASMA ELECT	L	<u>u</u>	JPL	MA R		32	12	61	ن ي		4800400	
)	4800402		ļΑ	CB4 PLASMA ELECT	1	U	JPL	MA R	i	32	04	62	J		4800261	
j	4800403	L	A.	CB4 PC PLASMA ELECT	L	U	JPL	MA R		32	04	62	J		4800402	
)	4800404		1	SUB-CHASS UPPER PLAS	1	U	JPL	MA R		32		61	J		4800261	
_	4800406		A	SHIELD CHASS ASSY	┖	U	JPL	MA R		32		62	J		4800297	
1	4800407			TOP SHIELD SCI EQUIP	1	U	JPL	MA R	ĺ	32	12	61	J		4900501	
	4800414		4_	COVER WELDMENT REED	↓_	U	JPL	MA R		32	12	61	J		4800261	
	4800416	ĺ	1	WASHER SHLD INSULATE		U	JPL	MA R		32	C 1	62	j	069100	4800300	
_	4800420	ļ	╄	INSULATOR 22KMC DET	┺	U	JPL	MA R		32		62			4800300	
	4800421	1	1	INSULATOR 15KMC DET	ĺ	U	JPL	MA R		32		62	J		4800300	
_	4800422	<u> </u>	<del> </del> —	CB2 CB3 PARTICLE FLX	╄	U	JPL	MA R		32	0.2	62	J.		4800352	
	4800423		_	BRKT TUN FORK RADMTR	ĺ	U	JPL	MA R		32	02	62	J		4800300	
	4800424	<u> </u>	В	TUNING FORK INSULAT	*	U	JPL	MA R		32	09	62	J		4800300	
	4800427			COVER HORN RADIOMETR	}	Įυ	JPL	MA R			05		J	067700	4800376	
_	4800428		1	COVER PW CONN RADMIR	┺	U	JPL	MA R		32	0.5	_	<u> </u>		4800300	
	4800429		İ	COVER SIGNAL RADIMTR	1	U	JPL	MA R				62	J		4800300	
-	4800432		<del> </del> _	STUD RADIOMETER	ļ	ĮΨ	JPL	MA R		32	05	62	_ J		4800300	
)	4800436	_		SCHEMATIC		Įυ	JPL	MA R		32		62	J		4800380	
	4800436	PL	C	MICROWAVE RADIOMETER	*	+~	JPL	MA R	-	32	10	62			4800436	
3	4800437			INSULTR SUBCHAS SOLR	l	U	JPL	MA R		32		62	ز		4800260	
	4800438		┼-	INSULATOR SUBCHASSIS	ļ	ĮŲ.	JPL	MA R		32	04		J	190100	4800260	
3	4800439		1	INSULATOR SUBCHASSIS	l	ĮΨ	JPL	MA R		32		62	J	190200	4800260	
	4800440		├	INSULATOR SUBCHASSIS	Ļ.,	Ų.	JPL	MA R			04	62	J	196200	4800264	
3	4800441			INSULATOR SUBCHASSIS	l	Įυ,	JPL	MA R			- 1	62	ا ز	196300		
Ц	4800442	L	1	INSULATOR SUBCHASS	╄	υ	JPL	MA R		32		62	J		4800269	
	4800443		1	INSULTR SUBCHAS SWP	1	U	JPL	MA R				62	J		4800269	
	4800489		ļ	INSULAT BD SUBASSY	+	Ų.	JPL	MA R			_	62	J		4800492	
	4800490	!	1	TB CURRENT LMT SUBAY	l	U	JPL	MA R				62	J		4800492	
	4800491	-		BD CURRENT LMT SUBAY	⊢	Ų	JPL	MA R				62			4800490	
	4800492	PL		CB CURRNT LMT SUBASY	ı	U	JPL	MA R				62	J		4800492	
			-	CB CURRNT LMT SUBASY	├-	Ų.	JPL	MA R			07	62	J		4800496	
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	4800495		1	SUBCHASS CURRENT LMT		U	JPL	MA R		32	07	62	J	065400	4800496	
		D.		CURRENT LIMIT SUBASY	₽-	Ų	JPL	MA R				62		064500	4800339	
		PL		CURRENT LIMIT SUBASY	1	U	JPL	MA R		32	~ ;	62	J	065700	4800496	
	4800497			CURRENT LIMITE SCHEM	<b>⊢</b> –	U	JPL.	MA R		32		62	J	065800		
- 1	4800501		l i	XFORMER SUBASSY	1	U	JPL.	MA R		35	07	62	- 1	065900	4800496	
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3	4800532		L	INSULATION BD SUBASY	┖	ļψ	JPL	MA			32		62	J	066200	4800496	
3	4800533		i	TB CURRENT LMT SUBAY	ı	U	JPL	MA				07		J	066300	4800496	
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,	F400	-2		TRIGGER MODULE	*	U	ML	MA			32			0	198602	50243	
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_	F1000	-2		TUNED AMP MODULE	*	Ū	ML	MA			32			0	198608	50243	
	F1100	2		PUSH PULL AMP MODULE	*	Ū	ML	MA	R		32			ō	198546	50243	
_	F1100	-2	$\Box$	PUSH PULL AMP MODULE	*	Ū	ML	MA	R		32			5	198586	50243	٠
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ī	G4000	-2		REFERENCE MODULE	*	U	ML	MA	R		32			- 0	198562	50246	
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A \$P30061   TRANSISTOR   U ML   MA   R   32   0   198617   50243   B \$P30079   INSULATING \$PACER   U ML   MA   R   32   0   198535   50180   B \$P30080   INSULATING \$PACER   U ML   MA   R   32   0   198536   50180   A \$40003   TEST \$PEC CHECK UNIT   U ML   MA   R   32   0   198536   50180   A \$40004   TEST \$PEC CHECK UNIT   U ML   MA   R   32   0   198531   50180   B \$750051   SCHEM CHECKOUT   CASE   U ML   MA   R   32   0   198531   50180   R \$750067   101   ML104-1   MAG   TEST   SET   U ML   MA   R   32   0   198531   150067   R \$750067   102   ML104-2   MAG   TEST   SET   U ML   MA   R   32   0   198528   4800293   B \$750118   TB1   MAG   TEST   SET   V U ML   MA   R   32   0   198520   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   SET   V U ML   MA   R   32   0   198522   50142   B \$750119   TB2   MAG   TEST   T	Α	SP30061		Ī	TRANSISTOR	*	U	ML	MA	r			1	Q.	-	50243	
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1	50124	1		TRI-AX MAG PROBE ENV	*	Ü	ML	MA R		32	1 1	Ü	198532	50180
1	50141			TBI MAG TEST SET	*	U	ML	MA R		32		Э	198519	150067
l	50142	1	1	TB2 MAG TEST SET	*	Ų	ML	MA R	L	32		0	198521	T50067
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ł	50144	1	1	WIRING LIST CHECKOUT	*	U	ML	MA R	Ĺ	32		0	198526	150067
Ī	150156			CABLE HARNESS	*	U	ML	MA R		32	7	Ç	198527	150067
I	50179		1	TRI-AX MAGNETMIR ENV		U	ML	MA R		32	i1	0	198533	50180
Ī	50180		Т	ML126-1 MAGNETOMETER	*	U	ML	MA R		32		٥	198530	4800293
İ	50180	101		MAGNETOMETER ASSY	*	U	ML	MA R	l	32		<u> </u>	198534	50180
Ī	50180	102	T	TRIAX FLUXGATE MAG	*	U	ML	MA R	Ì	32		Ü	198576	50180
ł	50227		1	SCHEMATIC	¥	U	ML	MA R		32		0	198625	50180
Ì	50241		Т	CIRCUIT MASTER	*	U	ML	MA R	İ	32		0	198558	50242
۱	T50241			CIRCUIT MASTER	*	U	ML	MA R		32		0	198598	50242
Ī	T50241		Т	CIRCUIT MASTER	*	U	ML	MA R		3.2		0	198621	50242
l	50242	101		CB TRI FLUXGATE MAG	*	U	ML	MA R	1	32		. U	198555	50243
Ī	50242	-2		BOARD ASSY	*	U	ML	MA R		32	1 1	G	198556	50242
l	50242	-1		BOARD	*	U	ML	MA R	l	32		Ü	198557	50244
	50242	-3		BOARD INSULATOR	*	U	ML	MA R		32	1	0	198559	50242
l	50242	101		CIRCUIT BOARD	*	U	ML	MAR	ļ	32		0	198595	50243
İ	50242	-2		BOARD ASSY	*	U	ML	MA R	1	32		0	198596	50242
l	50242	- 1		BOARD DETAIL	*	U	ML	MA R		32	_ i _ i		198597	50242
١	50242	-3		BOARD INSCLATOR	*	U	ML	MA R	ļ	3.2	1 1	0	198599	50242
1	50242	101	-+-	CIRCUIT BOARD	*	U	ML	MA R	<u> </u>	32	i↓		198618	50243
I	50242	-2		BOARD ASSY	*	U	ML	MA R		32		a	198619	50242
l	50242	-1	_	BOARD DETAIL	*	U	ML	MA R		32		2	198620	50242
Ī	50242	-3		BOARD INSULATOR	*	U	ML	MA R		32		0	198622	50242
ı	50243	101		CB TRIAX FLUX MAG	*	U	ML	MA R	<u> </u>	3.2	-i l	9	198537	50180
İ	50243	102	- 1	CB ASSY MAGNETOMETER	*	U	ML	MA R		32		0	198577	50180
l	50243	103	4	CB3 ASSY	*	ļυ	ML	MA R	ļ	32		<u>U</u>	198600	50180
ı	T50244	ŀ		CIRCUIT MASTER	*	U	ML	MA R	1	32		0	198569	50245
l	50245	101		CB PWR SUP & IFC	*	ļυ	+	MA R	ļ	3.2	i	<u> </u>	198566	50246
ı	50245	-2	'	BOARD ASSY	*	U	ML	MA R		32		g.	198567	50245
l	50245	-1		BOARD DETAIL	*	U		MA R	<u> </u>	3.2	-	¥	198568	5,0245
Ì	50245	-3		BOARD INSULATOR	*	U		MA R	i	32		0	198570	50245
ļ	50246	101	+-	CIRCUIT BOARD ASSY	*	U		MA R	<u> </u>	32			198560	50180
	50261	101	- 1	HOUSING	*	U	1 -	MA R	i	32		0	198572	50180
1	50261	-1		HOUSING	*	ļυ		MA .A	1	3.2		Ů	198573	5.0261
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į	50261	-4	+	ANGLE	*	IŲ	IML	MAR	1	13.1			198575	50261

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	50261			HOUSING	*	U	ML	MA			32			0	198623	50180	1
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	50275			WIRING DGM	*	U	ML	MA			32		1	0	198626	50180	Ì
4	50283		1_	WIRE LIST	-	U	ML	MA			32			0	198627	50180	
١	L50285			LAYOUT MAGNETOMETER	*	U	ML	MA			32			0	198628	50180	
1	50287		_	POTTING CUP MODIFIED	*	U	ML	MA	R		32			0	198571	50246	
١	50288			MA-R CHECKOUT ADAPTR	*	U	ML	MA	R		32			0	198529	T50067	٠
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=	DRAWING NO.	#45×	3 5	TITLE	C. C.	GLAG	VE +80 E	<u> </u>	MELEASE FOR MAJOR STEM	P 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	F0.	LIASE PATE	DRAWING CONTROL STATUS		NEXT ASSEMBLY
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L	550717		A	PWR SUP MK2 L-BAND	*	Ų	AEI	MA	R	33		1 1	0	167150	4600312
	850738		Α	ARTWORK TEMPLATE	*	U	AEI	MA		33		$\Gamma \neg \Gamma$	0	167210	550717
	850741			ARTWORK TEMPLATE	*		AEI	MA		33	L	1 1	0	167220	550717
	850749		Α	TRANSFORMER-PWR T401	*	U	AEI	MA		33	1		0	167300	550717
_	850750		Α	SILKSCREEN	*		AEI			33	Ь.		0	167400	550717
	950716		Α	CHASSIS MK2 L-BAND	*	Ū	AEI	MA	- 1	33	ĺ	1 1	0	167500	550717
_	950718			ENV MK2 L-BAND POWER	*		AEI	MA		33	<u> </u>	1	0	167510	550717
	950721 950739		A	SCHEMATIC MK2 L-BAND	*	1 -	AEI	MA		33		1 1	0	167520	550717
	950740		A	COMPONENT BOARD REG	*	+-	AEI	MA		33	├	╁╼╂	0	167530	550717
	950742		A	COMPONENT BOUNKEG	*	U		1		33	ĺ	į	0	167600	550717
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	106421		Α	L-BAND RF BLOCK DGM	l	U	JPL	MA			12		J	182410	4600333
4	106499			BLK DGM PAN COAX CBL	*	U	JPL	MA	R		02	62	J		4600333
ł	119102		.	INTERCONNECT L-BAND	*	U	JPL	MA	R	33			0		4600333
_	3155033			PAD		U	JPL	MA	R		06		J		4600183
- 1	3155035			OUTER CHOKE SPACER		U	JPL	MA	R		04	i . v I	J		4600183
	3155037			BEARING SLEEVE RETAINER RING	-	U	JPL	MA	R		04	60	_ J		4600183
1	3155066		ь						1	1	04	1 1	٠.		4600183
4	3155067		В	OUTER CHOKE CYLINDER		<u>U</u> .	JPL	MA	R		06				4600183
- 1	3155068			COAX LINE COTE COND		U	JPL	MA	R	33	06		J		4600183
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	3155072	į		INNER CHOKE CUTE CON		lu l	JPL	MA	R		06		١		4600183
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	3155137			SHIM		Ü	JPL	MA				60	_ <u>J</u>		4600183
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л.	3155272			CONDUCTOR CENTER			JPL	MA	R		10		<u> </u>		4600340
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#### JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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DRAWING LIST

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À	3155525		Α	CONDUCTOR CENTER	Г	Ū	JPL	MA	२	33	10	60	J		3155272	
la	3155601			MODIFICATION ANTENNA	l	lυ	JPL	MA	₹	33		61	ر		4600340	∟
Ü	4400201		Ç	CHASSIS BATTERY	*	U	JPL	MA	₹	33	09		) J		2011000	
IJ	4400202	i		COVER BATTERY	*	U.	JPL	MA	R	33	10	61	<u></u>		2011000	Ш
Ď	4600002		П	HOUSING CATHODE SECT	*	U	JPL	MA	R	33	03	61	J	143430	4400003	
D	4600003	1		HOUSING PLATE SECT	*	U	JPL	MA.	R	33	23	61			4400204	$\sqcup$
D	4600016			HOUSING INSULATOR	*	υ	JPL	MA	R	33	07	61	J	142710	4400042	
lc	4600052	l		WASHER REINFORCEMENT		lυ	JPL	MA_	R	33	06	61	J.	003400	4600076	Ш
ľ	4600052			WASHER REINFORCEMENT	Γ	υ	JPL	MA	R	33	06	61	J	003900	4600097	
ĺв	4600053	l	1	PLATE REINFORCEMENT	1	lυ	JPL	MA	R	33	06	61	J	004000	4600097	1_1
B	4600056	<del> </del>	1 <sub>A</sub>			Ū	JPL	MA	R	33	108	61	J	004300	4600098	
lB	4600057	l	l''	RIB LONG ELEMENT	ļ	Ū	JPL	MA	R	33	06	61	J	004400	4600098	
B	4600058		1	RIB SHORT ELEMENT	1	Ü	JPL	MA	R	33	06	61	J	004500	4600098	
lä	4600059	l	İ	RING SUPPORT		Ιū	JPL	MA	R	133	156	61		004600	4600098	$\perp \perp$
Ĭ	4600060	i —	A	PC TURNSTILE ANT	Γ	Ū	JPL	MA	R	33	08	61	J	005500	4600099	H
Ιč	4600076	1	В	ANTENNA DIPOLE		Ų	JPL	MA	R	33	01	62	J J	003300	4100306	L.I
Ì	4600077	<del>                                     </del>	Ā	BODY ASSEMBLY	T	Ū	JPL	MA	R	33	08	61	J	003500	4600076	
	4600078			BOARD CIRCUIT DI-PLE	*	Ū	JPL	MA	R	33	25	62	J		4600077	$\perp$ i
T	4600079		T	ART WORK DI-POLE	*	Ü	JPL	MA	R	33	0.7	61	J		4600078	
c	4600080	ł	В	CONDUCTOR ASSY ANT	1	ĮŲ.	JPL	MA	R	33	01	62	J	004700	4600098	
Ť	4600081	<del></del>	A	BASE	T	U	JPL	MA	R	33		61	Ĵ		4600080	
В	4600082	l	A	BASE PLATE	1	Ų	JPL	MA	R	33	08	61	<u> </u>		4600081	Ш
В	4600083	T	Α	CONDUCTOR	Т	U	JPL.	MA	R	33		61	. J		4600081	
В	4600084	l	A	BUSHING	1	U	JPL		R	33	08	61	J		4600081	Ы
8	4600085	<b>†</b>	A	CONNECTOR RF MOD	Ī	U	JPL	MA	R	33	0.8	61	J	005200	4600080	
la.	4600086	l	lв	CONDUCTOR CENTER	Ĺ	ĺυ	JPL	MA	R .	33	104	162	J	005300	4600080	1
В	4600087		=-	GUSSET	*	ΙŪ	JPL	MA	R	33	0.7	61	J	003530	4600077	1 1
	4600088	1	A		*			MA	R	33	28	61	J	003540	4600077	<b>⊥</b> _
B	4600089	t	†~·	CAP CENTER CONDUCTOR		U		MA	R	;33	0.7	61	J	003600	4600076	
ΙB	4600089			CAP CENTER CONDUCTOR	1	U	JPL	MA	R	33	0.7	61	J		4600097	
1	4600097	<b>—</b>	A	ANTENNA COMMAND	T	īU	JPL	MA	R	33	01	62	)		4100306	
Ιč	4600098	1	IA	BODY ASSEMBLY		10	JPL	MA	R	3.3	0.8	61	_ J	004200	4600097	
10		1	iB	CB COMMAND ANTENNA	1	U		MA	P		04	15.2		005400		
a	4600151		1	PLATE REINFORCEMENT		U	JPL	ΜA	R	33	C	64	1 1	003700		
-	ENOTES CHANGE 1	TO PREV	SUC	LIST											JPE 0513 1UN	E 61

JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

DATE LISTED

PAGE 4-12-63 MARINER R 62 NUMERICAL BY DIV 16 DRAWING LIST BEST DATE XPONDER CAVITY SCHEM \* U JPL MA R. DRAWING CONTROL STATUS 33 10 61 33 10 62 33 10 61 33 10 61 33 10 61 33 10 61 33 10 62 33 10 62 33 01 62 23 09 62 33 01 62 23 09 62 33 01 62 23 09 62 33 01 62 HEXT ASSEMBLY DRAWING NO. BASH | 4 -D 4600152 C 4600161 D 4600183 B 4600184 B 4600185 082400 4600008 JPL MA R JPL MA R JPL MA R 199000 4800297 056000 4100310 TRANSDUCER
JOINT ROTARY COAX
SPACER BEARING OUTER
SPACER BEARING INNER 057300 4600183 JPL MA R JPL MA R JPL MA R 057400 4600183 057500 4600183 057600 4600183 SPACER DIELECT SMALL SPACER DIELECT INNER B 4600186 B 4600187 057600 4600183 167100 4900501 168700 4600318 168800 4600318 168900 4600315 169000 4600315 169100 4600316 AMPR REC SUBASSY ENV
JUNCTION BOX SCHEM
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COMMUNICATIONS 2A5
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SPACER JUNCTION BOX U JPL MA R D 4600312 D 4600317 U JPL MA R A 4600318 PL J 4600318 U JPL MA R
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B ANT OMNI-DIRECTIONAL 33 01 62 33 12 62 182500 4600333 057800 4100310 4600340 33 03 62 33 03 62 GROUND PLANE UPPER CONE-OUTER TUBE SUBA 059200 4600340 059300 4600340 4600341 4600342 U JPL MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R 148000 163300 SELF-LKG 4-40X3/16 SELF-LKG 4-40X3/16 14049 SELF-LKG 4-40X3/16 SCR SELF-LKG PAN H 33 145400 25382 14049 SCR SELF-LKG PAN HE INS SLVG ELEC EXPAND INS SLVG FLEC EXPAND 158900 25383 1595**0**0 0 14143 33 161500 25368 146600 14143 14143 INS SLVG #18 WHT INS SLVG #18 WHT 25369 U MOT MA R U MOT MA R 0 148600 25370 33 33 33 INS SLVG #18 WHT INS SLVG #18 WHT 154200 25371 14143 U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R U MOT MA R 163900 25372 14143 INS SLVG+ELEC-EXPAND PAN HD 6-32X 5/16 14143 166100 148100 25373 25380 15013 15013 15013 SCR MACH HD 6-32X PAN HD 5-32X 5/16 163400 145500 25381 2538? SCR MACH PAN HD 159000 25383 JFL 0513 JUNE 61

F	RAWING	L I	<b>S</b> 1	CALIFORNIA IN MARINER								ALIF,		PAGE	17	4-12-6
:	DRAWING NO.	4 4 5 X	1	TITLE	9	51,488	VENSOI COSE	L.	#410	104 178 M	Best.		7.5	DRAWING		MEXT
-	15015		+	WIRE ELEC B-22-U WHT	Ŧ.	1.			R	THE SEE.		MD.	ys	STATUS	<del></del>	ASSEMBLY
	15015		1	WIRE ELECT B-22-U		10	MOT	MA		ĺ	33			0	159600	2536
7	15015		╁	WIRE ELEC B-22-U WHT	╁	H	MOT	MA			33			0	161600	2536
	15015		ļ	WIRE FLEC B-22-V WHT		li li	MOT				33		.	0	146700	2536
	15015	_	<del> </del> –	WIRE ELEC B-22U WHT	⊢	U	MOT	MA			33		$\rightarrow$	0	148700	2537
	15015			WIRE ELEC B-22-U WHT	1	Ľ	MOT	MA			33	- 1		0	154300	2537
_	15015		-	WIRE, ELEC B-22-U WHT	╀	lu	MOT	MA			33			0	164000	2537
i	15021			RES FXD 5100-5-1/4	1	1 -		1			33	į	- 1	0	166200	2537
1	15021		╁	RES FXD 5100-5-1/4	⊢	H	MOT				33			0	149600	2527
ı	15021		1	RES FXD 18K-5-1/4		1-	MOT	MA			33	- 1		0	154800	2528
-{	15021		-		⊢	U	-	MA			33			0	161800	2528
۱	15021			RES FXD 18K-5+1/4	1	U	MOT	MA			33	i		0	150600	2529
┥	15021		-	RES FXD 220K-5-1/4	⊢	Ų.		MA			33			0	155800	2532
۱	15021			RES FXD 1000-5-1/4		U	MOT	MA			33	1		0	156200	2532
-			-	RES FXD 6200-5-1/4	ļ_	U	MOI	MA			33	1		0	151200	2532
1	15021		Ш	RES FXD 220K-5-1/4	ı	U		MA			33	į	- 1	0	156600	2533
4	15021		L	RES FXD 47K-5-1/4	<u> </u>	U	MOL	MA			33			0	157000	2533
ı				RES FXD 10K-5-1/4	١.	U		MA		i	33	į		0	151700	2533
+	15021		Н	RES_FXD_3300-5-1/4	Ĺ.,	Ú		MA			33			0	157400	2534.
-[	15021			RES FXD 10-5-1/4		U		MA			33	- 1		0	146100	2534
+	15021		Н	RES FXD COMP		U.	MOT	MA	_R		33	1		0	160500	25360
ı	15021			RES FXD 560-5-1/4		U	MOT	MA			33	Ì	ĺ	0	160900	2536
+	15021		$\dashv$	RES FXD 27K-5-1/4		U.	MOT	MA			33			_0	157800	25362
I	15021			RES FXD 5600-5-1/4		UΪ		MA			33	- [	- 1	0	152100	2536
4	15021			RES FXD 330-5-1/4		U		MA			33			0	152500	25364
1	15021			RES FXD 2200-5-1/4	1	U		MA	1		33 į	- 1	- 1	0	153000	25365
1	15021			RES FXD 100K-5-1/4		U	MOT	MA	R		33		- 1	0	148800	25370
1	15021			RES FXD 470K-5-1/4		U		MA	R		33			0	154400	25371
4	15021			RES FXD 100K-5-1/4				MΑ			33	İ		0	164100	25372
ı	15021	i		RES FXD 39K-5-1/4		U	MOT	MA	R		33			0	153400	25374
1	15022			RES FXD 82K-5-1/2		Ų.	MOT	MA	R I		33	- 1	-	0	151300	25320
ı	15067	i		WASH LOCK #4 MED SPT		U	MOT	MA	R		33			0	148200	25387
4	15067			LOCK_#4 MED_SPLIT		υ	MOT	MA	R	!	33	- 1		0	163500	25381
1	15067			WASH LOCK #4 MED SPL	7	U	MOT	MA	R		33			0	145600	25382
1	15067			WASH LOCK #4 MED			MOT				33	- }	İ	o l	159100	25383
-	22465	- 1		FILTER BAND			MOT	MA	R		33	- [		0	154500	25371
1	22485			PCB			MOT	MA	R		33	- 1		o l	161000	25361
ĺ	22486			PCB		U	MOT	MA	R		33	-†		0	161100	25361
1	22488			PC BD		U	MOT	MΑ	R		33			ō	160600	25360
1	22489	1		PC BD		U	MOT	MA	P.		33	-1		0	160700	25360
1	22490	1	- 1	XMER AF-CHPR DEMOD	. !	ul	MOT	МΛ	R	1	33	i	- 1	ō l	148900	25370

DF	RAWING	L1	ST	JET PR CALIFORNIA IN MARINER	ESTIT	TUTE	OF TEC	CHNOLOG	Y, PASAD	ENA,		PAGE	18	DATE LISTED 4-12-63	_
Ħ	DRAWING NO.	941H 40.	1 5	TITLE	1	CLASS	41 ×844		11 FC0 4 17 FW 1 TPPV 117.	9149. #19.	BATE YE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	:
	22490 22491			TRANSFORMER AF	T	1 -			1000	33		0	154600	25371	<u> </u>
	22491 22494			XMFR AF-LOOP PH DET HOUSING SUBCHASSIS	T	U	MOT	MA R		33		0 0	149000 164200 148300	25372	
	22494			HOUSING SUBCHASSIS	T	U	MOT	MA R		33		0	163600	25380 25381	

22490	TRANSFORMER AF	1 10	MOT	MA R	33		0	154600	25271
22491	XMFR AF	Ιű		MA R	33	į	ő	149000	25371
22491	XMFR AF-LOOP PH DET	Ιŭ		MA R	33	+-	0	164200	25370 25372
22494	HOUSING SUBCHASSIS	Ιŭ		MA R	33		0		
22494	HOUSING SUBCHASSIS	Ιŭ		MA R	33	<del>!</del> —	0	148300	25380
22497	HOUSING SUBCHASSIS	lu		MA R	33	į	0	163600	25381
22549	PCB	ΙÜ	MOT	MA R	33	<del> </del>	0	159200 158200	25383
22550	PCB	١ŭ		MA R	33	1	0	158300	25366
22555	PCB	Ηŭ		MA R	33	i —	0	157900	25366
22556	I IPCB			MA R	33		0		25364
22568	PCB	Ιΰ		MA R	33	<del>i -  </del>	<del></del>	158000	25362
22569	PCB	١ŭ		MA R	33		0	153100	25365
22571	PCB	ΗŬ	MOT	MA R	33	$\vdash$	-0	153200	25365
22572	PCB	ال		MA R	33	1 1		152600	25364
22577	PCB	H	MOT	MA R	33	<del> </del>	0	152700	25364
22578	PCB	ا		MA R		1	0	152200	25363
22629	TRANSFORMER AF-211	U		MA R	33	1	0	152300	25363
22630	TRANSFORMER AF-212	ΙÜ		MA R			0	146800	25369
22631	INDUCTOR-3MH			MA R	33	<u> </u>	0	146900	25369
22643	TRANSISTOR				33		0	147000	25369
22645	HOUSING SUBCHASSIS		MOT		33	⊷	0	152800	25364
22647	SPACER SUBCHASSIS	U		MA R	33		0	145700	25382
22647	SPACER SUBCHASSIS	U		MA R	33	-	0	148400	25380
22647	SPACER SUBCHASSIS	U		MA R	33		0	163700	25381
22647	SPACER SUBCHASS	U		MA R	33		0	145800	25382
25275	PH DET LOOP-CM MOD			MA R	33		0	159300	25383
25275	LOOP PH DET-COM PH			MA R	33	$\sqcup \bot$	0	149100	25370
25276				MA R	33		Ō	164300	25372
25277	PCB			MA R	33	1	0	149300	25275
	PCB			MA R	33		0	149400	25275
25278	QUAD PHASE DET MOD			MA R	33		0	149500	25370
25279	РСВ			MA R	33		0	149700	25278
25280	PCB			MA R	33			149800	25278
25281 25282	CHOPPER			MA R	33		0	154700	25371
25283	PCB		MOT		33		0	154900	25281
25284	PCB			MA R	33	ĺ	0	155000	25281
25284	LOOP PH DET DRVR MOD			MA R	33		0	149900	25370
	LOOP PH DET DRVR MOD	1 - 1		MA R	33		0	155100	25371
25284	LOOP PH DET DRVR MOD			MA R	3.3		0	164400	25372
25285	PCB		MO1		33	Т	0	150000	25284
25285	PCB	141	MOT!	MA R	331 1	- 1	- 45	150300	25287

				JET PR CALIFORNIA IN:									}	DATE LISTE	0
_			c <del>T</del>	MARINER F								PAGE	19	4-12-6	3
K	DRAWING NO.	L I	31	TITLE	9	5873	VE##00		#45 FOR	10.	#6: FAST DATE #0. 1%	DRAWING CONTROL STATUS		NEXT	7
ļ		Pu.	100	B.C.D.	<u>+</u> ⁻	tu	MOT	MA		33		U	150100	25284	-
	25286			PCB PCB		ľű		MA		33		o i	150400	25287	
	25286		⊢	QUAD PH DET DRVR MOD	+	lΰ	MOT	MA		33		0	150200	25370	
	25287		1	DUAL DRIVER MODULE		Ĭŭ	MOT	1		33		ō	161700	25368	
	25288		╁~		╁	Ιŭ	MOT	MA		33		O.	164500	25372	
	25288		ļ	LP DUAL DRIVER MOD		lő.	MOT	MA		33		ō	166300	25373	
	25288			LP DUAL DRIVER MOD	╁	U	MOT	MA		33		Ü	161900	25288	
	25289		1	PCB		lu.	MOT	MA		33		ŭ	162000	25288	
	25290	<del>  -</del> -	+	PCB	+	10	MOT	MA		33		0	159700	25367	
	25291			DUALGINVERT GATE MOD	1	10	MOT	MA		33		o o	162100	25368	
	25291			DUAL&INVERT MODULE	╁	×		MA	-+	33		0	155200	25371	-
	25291	ľ		L PWR DUAL-INV MOD		U	MOT	MA		33		0	164600	25372	
	25291	L	4-	LP DUAL-INV GATE MOD	+	+-		IMA		33		0	166400	25373	
	25291	ŀ	1	LP DUAL-INV GATE MOD		U	1	MA	* I	33		ŭ	155300	25291	
	25292		1	РСВ	+-	U	MOT			33	<del></del>	0	153800	25384	
	25292	ĺ	İ	PCB	1	U	MOT	MA		33		ŏ	155400	25291	
	25293	L.		PCB	1	Ų	MOT		$\rightarrow$		<del></del>	0	153900	25384	
	25293		1	PCB	1	U	MOT	MA		33		ő	164700	25372	
	25294	L.,	$\perp$	9 INPUT DET-INV MOD_	4-	ļu	MOT				i	0	164800	25294	
	25295	l	i	PCB	1	U	MOT	MA		33		0	159800	25367	
	25297		-1-	DRIVERSINVERT GATE	+-	_U				33	<del> </del>	:0	162200	25368	
	25297	1	ı	DRIVERGINVERT GATE		U	MOT			33		o o	150500	25370	
	25297	L		DRIVER-INVERT MODULE	╄	Ų		MA_		33	<del> </del>	0	165000	25372	
	25297	1	1	DRIVER-INV GATE MOD	1	Įυ				33		a	150700	25297	
	25298	L	1_	PCB	+	ĮU,			R	33	<del>                                     </del>	3	150800	25297	
	25299	İ	ì	PCB		Ū		1		33	1 1	0	159900	25367	
	25304	L	$\perp$	PC BD1	+	U				33		0	160000	25367	
	25305	1	1	PC BD2	1	U		MA		33		0	162300	25368	
	25306	1	1	PC1	+	- ⊻				33		0	162400	25368	=
	25307	1		PC BD2	1	U	1					0	150900	25370	
	25308		$\perp$	PCB-#2	+	U			R	33	<del>  -  </del>	0	151000	25370	
	25309		1	PCB-#1	Ţ	Įυ	1		R	33		0	155500	2537	
	25310	<u> </u>	_1_	PCB #2		Ų	1.00		R	33	<del>  </del>	•		2537	
	25311			PCB #1	1	U		MA	R	33		0	155600	2537	
	25312			PCB #2	4.	<u> </u>	-	MA	R	33	<u> </u>	1 0	165100	2537	
	25313		Τ	PC8#1		1		MA	R	33	i	0	165200	2537	
	25314	L.	1	PC#1	4	ļι		MA	R	33	+ + +	0	166500	2537	
	25315	T -	T	PC#2		L			R	33		0	166600	2529	
	25317		$\perp$	РСВ	4	Ų		-	R	33	ļļ	0	164900	2536	
	25318		T	9 INPUTGINVERT MOD	-	1			R	33		0	160100	2536	
	25318	i		INPUTGINVERT MODULE	L	- 1	J MO	MA	H	33	i	T 5	102500	JPL 0513 JU	-

				CALIFORNIA INS	TIT	IITE	OF TEC	HNOL	OGY.	PASADI	NA. C	ALIF.		}	DATE LISTE
R	AWING	1.1	ST	MARINER F									PAGE	20	4-12-6
٦	DRAWING NO.	BASH NO.	::	TITLE	ŧ	153	41 MOD 8		ECEASE MAJOR IT	701 701	PI SP.	BATE NO. TE.	DRAWING CONTROL STATUS		NEXT ASSEMBLY
4	25319		-	PC BD	<del> </del>	U	MOT	MA			33		0	160200	25318
١	25320			PC BD		Ιŭ	MOT	MA	R		33	1 1	0	160300	25318
ł	25322		+	LIMITER AMPL MODULE	Т	Ū	MOT	MA	R		33		0	155700	25371
Į	25323		1	PCB	1	lu	MOT	MA	R		33	1.1	0	155900	25322
ı	25324		+	PCB	1	Ü	MOT	MA	R		33		0	156000	25322
Į	25325			LIMITER EMIT FOL MOD	1	ĺΰ	MOT	MA	R		33		0	156100	25371
	25326		+-	PCB	t	ΰ	MOT	MA	R		33		0	156300	25325
	25327			PCB		U	MOT	MA	R		33		0	156400	25325
	25328		+	8 MSEC MONO MODULE	1	Ū	MOT	MA	R		33		0	151100	25370
	25329	,	1	PCB	1	U	MOT	MA	R		33		0	151400	25328
	25330		+	PCB	Т	Ū	MOT	MA	R		33		0	151500	25328
	25331		1	VOLTAGE CONT OSC	1	ΙŪ	MOT	MA	R		33		0	165300	25372
	25332	_	+-	COM INPUT AMPL MOD	t	U	MOT	MA	R		33		0	156500	25371
	25333		1	PCB		U	MOT	MA	R		33	1	0	156700	25332
	25334		+	PCB	+	ΙŪ	MOT	MA	R		33		0	156800	25332
	25335	1	1	COM OUPT AMPL MOD	ı	Ιū	МОТ	MA	R		33		0	156900	25371
	25336		+	PCB	+-	Τū	MOT	MA	R		33		0	157100	25335
	25337	1	1	PCB	ı	Ιŭ	MOT	MA	R		33		0	157200	25335
	25338	<b></b>	+	DUMP DRIVER MODULE	+	łΰ	MOT	MA	R		33		0	151600	25370
	25339	1	1	PCB 00-5-1/4		łŭ	MOT	MA	R		33		0	151800	2533
	25340		+	PCB 00-2 1/4	+	Τŭ	MOT	MA	R		133		0	151900	2533
			ļ	3 9V618V MODULE		Ĭĭi	MOT	MA	R		33	!	0 .	157300	2537
	25341 25342	├	+	IPC8	$\dagger$	ŭ	MOT	MA			133		0	157500	2534
	25342	1	1	IPCB	1	Ιŭ	MOT	MA			33		o	157600	2534
		$\vdash$	+-	6V 2BV RECT MODULE	+-	ĺΰ	MOT	MA	R		33		0	146000	2536
	25344	1	1	PCB	1	Ιŭ	MOT	MA	R		133	1 1	٥	146200	25344
	25345	₩-		PCB	+	Τŭ		MA	R		33		ō	146300	2534
	25346	1		6 VOLT REC-FIL MOD		li.	MOT	1	R		33	1	o	146400	2536
		$\vdash$	+	PCB	+	٦ŭ	MOT	+	R		33	T T	0	146500	2534
	25348	1		PCB	1	Ιŭ	1	1	R		33		o	147100	2536
	25349	+	+	LOOP FILTER MODULE	+	٦ŭ		$\overline{}$	R		33		0	165400	2537.
	25350			PCB		1	1		- 1		33		0	165500	25350
	25351	+ -		PCB	-†-	Ťů					133		O	165600	2535
	25352	1		PCB	ļ	1,	MOT				33		ō	147200	2536
	25353	+	+-	IS SW MODULE	+	Ti.		_	R		33		Ö	160400	2536
	25360	1	ı	IP SW MODULE		٦Ľ	1	1	R		33		lo	160800	2536
	25361	+	-	IP SW MODULE	-+-	10	+1		R		33	t- t		162600	2536
	25361	1	-	1		1,	MOT	1	R		33		0	166700	2537
	25361		+-	IP SWITCH MODULE	+	1		- +	R		33	<del>  -   -   -   -   -   -   -   -   -   -</del>	0	157700	2537
	25362	1	-	LIMITER MODULE	- [	1,	MOT		R		33		1 0	152000	2537
	25363	1	_1_	DUAL INVERTER MODULE		_,,	וצחני	TEN	- 12 1		100	<del></del>			JPL 0513 JL

F	RAWING	LI	s t	CALIFORNIA IN: MARINER F								ALIF.		PAGE	21	4-12-6	
	DRAWING NO.	PAER BO.	ŧś	TITLE	1	3	714943 COSE	141	WAJO	15 700 1768 THOU SEP.	etsp.		178	DRAWING CONTROL STATUS		HEXT	1
	25364		T	DUAL DUMP MODULE		υ	MOT	MA	R		33			0	152400	25370	†
_	25365		┖	MATCHED FIL AMPL MOD	L	U	MOT	MA	R		33		i	0	152900	25370	J
	25366			INPUT EMIT FOL MOD		U	MOT	MA	R		33			0	158100	25371	1
	25367		┖	DECODER ASSY		ļυ	MOT	MA	R		33		1	0	159400	25383	
ı	25368		ŀ	DECODER ASSY		U	MOT	MA	R		33			0	161400	25383	_
ĺ	25369		L.	POWER SUPPLY ASSY OF		U	MOT	MA	R		33			0	145900	25382	
	25370		Ī	FIL & PHASE 3A2A2		U	MOT	MA	R		33	-		0	148500	25380	
	25371			AMPL COMMAND-3A2A1		V	MOT	MA	R		33			0	154100	25380	
1	25372			GEN PH LK-L 3A1A2		U	MOT	MA	R		33			o	163800	25381	
	25373			TELEMETRY 3A1A1		ĺΨ	MOT	MA	R		33			ō	165900	25381	
	25374			S/R/T FLIP FLOP MOD		U	MOT	MA	R		33			0	161200	25367	_
ł	_25374			S/R/T FLIP FLOP MOD	l	lυ	MOT	MA	R		33		•	ŏ	162700	25368	
1	25374			S/R/T FLIP-FLOP	Г	Ū	MOT	MA			33			Ö	153300	25370	
ł	25374			S/R/T FLIP FLOP MOD		Ιũ.	MOT	MA	R		33			o	165700	25372	
	25374			S/R/T FLIP-FLOP MOD	$\overline{}$	Ŭ	MOT	MA	_		33			ŏ	166800	25373	
İ	25375			PCB		ΙŭΙ	MOT	MA			33		1	ő	153500	25374	
	25376			PCB	$\vdash$	ŭ	MOT	MA			33		1	0	153600	25374	-
1	25380			DETECTOR -3A2		ŭ	MOT		R		33		l l	o l		4600309	
1	25381		_	DETECTOR A-3A1		ŭ	MOT	MA	_		33			Ö	163200		
Ì	25382			POWER SUPPLY-3A3		III	MOT		ŘΙ		33			١		4600311	
ı	25383			DECODER 3A4	_		MOT				33		$\vdash$	0		4600308	
I	25384			DET-INVERT GATE MOD		lü	MOT			İ	33		i l	ŏ	158800	4600310	
ł	25385			SPACER CONNECTOR		ij.		MA	R		33		<del>!</del> —	0	153700	25370	
I	25385			SPACER CONN ELEC		U	MOT				33		; ;		158500	25380	
ł	25385			SPACER CONN ELEC		U	MOT	MA			33		-	0	166000	25381	-
I	25385			SPACER CONN ELEC		U		MA					1		147500	25382	
ł	25540		$\vdash$	DUMMY MODULE		2	MOT				33				162900	25383	-
I	25540			DUMMY MODULE	ĺ	lu l			R		33		1	0	147300	25369	
ł	29503		-	INS COMP FLEC PROTEC	_	V.	MOT	MA	R		33		-	0	166900	25373	-
I	29503					- 1			R	]	33			0	161300	25367	
l	29503			INS LACQUER KIT INS LACQUER	-	V	MOT	MA	R		33			0	162800	25368	
ļ	29503				li	U		MA		- 1	33			0	147400	25369	
ł			-	INS LACQUER KIT		Ų	MOT		R		33		<u> </u>	0	154000	25370	
١	29503			INS LACQUER KIT		I۷	MOT	MA		i	33			0	158400	25371	
1	29503		_	INS LACQUER KIT	Щ	U	MOT	MA			33	_	L	0	165800	25372	_
	29503		ı	INS LACQUER KIT	١.	U	MOT	MA		i	33			٥	167000	25373	1
1	120123		_	XPONDER SUBASSY		U	MOT	MA				Q7		C		4300187	j
İ		В		OSCILLATOR RADIO		Ψ	MOT	MA	R	I		07		C	107400	0120123	
ļ		В	_	FREQUENCY DIVIDER		V	MOT	MA	R		33	07	62	C	122000	0120178	i
١		8		DETECTOR RADIO FREQU		U	MOT		R	I		07		C	123900	0120178	1
ļ	120168	B	- 1	FILTER SUBASSY LOW	1	υľ	MOT	MA	Rİ	1	33	07	162	c 1	111600	0120173	ł

				CALIFORNIA IN	STIT	UTE	OF TEC	HNOLOGY, PAS	ADENA.	CALIF				DATE LISTER	D
F	RAWING	. L1	s T	. MARINER I	٦ (	62	NUM	ERICAL BY	DIV			PAGE	22	4-12-6	3
•	DRAWING NO.	BASH NO.	<b>3</b> 5	TITLE	#	173	*****	BELEASE FOR HAJOR ITEM	etap.		78.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
5	120170	<del>                                     </del>	T	CONVERTER FREQ ELECT		Ū	MOT	MA R	33		62	C	109000	0120123	+
)	120171			AMPLIFIER INTER FREQ		U	MOT	MA R	33	07	62	C	124900	0120178	
)	120172			AMP 2 INTERMED FREQ		U	MOT	MA R	33	07	62	C	125900	0120178	Ť
	120173	В	L.	FILTER LOW PASS		U	MOT	MA R	_ 33	07	62	C	111500	0120123	ĺ
	120174		Ι.	AMPLIFIER DIRECT		U	MOT	MA R	33	07	62	C	126800	0120178	1
	120175		1_	OSCILLATOR RADIO		U	MOT	MA R	33	0.7	62	c	112400	0120123	1
ı	120176	В	-	FREQUENCY MULTIPLIER		U		MA R	33	07	62	C	114300	0120123	Ţ
_	120177		_	FREQ MULTIPLIER	L	Ü		MA R	33	07	62	C	117700	0120123	Ì
	120178		1	XPONDER SUBASSY	İ	U		MA R	33		62	C	121900	4300188	Ţ
_	120199	<u> </u>	_	AMPLIFIER SUBASSY	L	U	_	MA R	33	07		C	126000	0120172	1
		A	1	CAVITY TUNED X7		U	MOT		33	07	62	C	114400	0120176	Ī
_	120834		L	BLOCK MTG SUBASSY		U	MOT		33	07	62	C		0120170	j
	120855	_		FREG CONVERTER LOWER		U	MOT	MA R	33	07	62	C	109600	0120170	1
	120856	В	_	FREQ CONVERTER SUBAY	<u> </u>	U		MA R		07	62	C	109900	0120170	
	120860			TRANSPONDER 890/960	*	U	MOT	MR6	33			0			1
	120883	В	L	TRANSPONDER A1A7	*	U	MOT	MR 6	33	]_		0			
	120884	В	Γ	TRANSPONDER AZAT	*	U	MOT	MR6	33	Г		0			1
	122726	Α		CAVITY TUNED X4		U	MOT	MA R	33	07	62	C	117800	0120177	ı
	220126	8	Γ	NUT PLAIN HEXAGON		U	MOT	MA R	33	07	62	C	114500	0120310	1
		8	L.	SCREW TUNER CAVITY		U	MOT	MA R	33	07	62	C	114600	0120310	
	320127	В	1	SCREW TUNER CAVITY		υ	MOT	MA R	33	07	62	C	117900	0122726	1
_	320280	Α		RETAINER THREADED		U	MOT	MA R	33	07	62	C	110200	0120170	Ì
	320325	Α		SCR MACH FH 2-56 68	*	U	MOT	MA R	33			0			1
	320898		L_	FASTENER CONNECTOR	*	U	MOT	MR6	33			0			
	420201	Α		WASHER FLAT		U	MOT	MA R	33	07	62	C	128400	0120178	1
	420202			WASHER FLAT		U	MOT	MA R	33	0.7	62	C	119000	0120177	Į
	425211			WASHER SPACER	*	U	MOT	MA R	33			0			1
	520857	В	L	GROMMET METALLIC		U	MOT	MA R	33	07	62	Ç	110300	0120170	
	620881	1		RES THERMAL	*	U	MOT	MR6	33			0			1
	720134		L	BRACKET CONNECTE MTG		Ų	MOT	MA R	33	07	62	C	120300	0120123	
	720137			BRACKET CONNECTE MTG		U	MOT	MA R	33	07	62	C	128500	0120178	1
	720262		L	BRACKET RETAINER		U	MOT	MA R	33	07	62	C	110400	0120170	
	820219			CAPACITOR FIXED PLAS		U	MOT	MA R	33	07	62	C	111800	0120173	1
	1129509	A.		INS VARNISH	*	U	MOT	MA R	33			0			
		Α		INS VARNISH	*	U	MOT	MR6	33			0			Ì
		В		INSULATOR PLATE		u	MOT	MA R	33	07	62	Ċ	111900	0120173	
	1420202	Α		INSULATOR PLATE		U	MOT	MA R		07		C		0120174	1
	1420221	Α		INSULATOR BUSHING		u	мот	MA R		07		c		0120123	
	1420277	Α		INSULATOR XFORMER		ŭ		MA R		07		Ċ		0120123	1
j	1422686	A	1	INSULATOR PLATE	*	Ū	MOT	MA R	33	ıŤ	•	o l			1

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	DRAWING NO.	944H 90.	1	TITLE	3	3	4E MB08	L.	HAIO	1114 1114 1114	PETP.	*0.	7E.	DRAWING CONTROL STATUS		NEXT ASSEMBLY
,	1422730	<u> </u>	-	INSULATOR CONTACT	-	U	MOT	MA		7744 744	33	0.7	62	C	114700	0120310
	1422730			INSULATOR CONTACT	l	ľů	МОТ	MA		ł	33	07	62	č		012272
	1422733		-	INSULATOR	_	Ιŭ	MOT	MA	R		33	07	62	Č		0120310
		A		INSULATOR		lu	мот	MA	R		33	0.7	62	Ċ	118100	0122726
	1422750		-	INSULATOR CAV	-	Ū	MOT	MA	R		33	07	62	Ċ		0122726
	1520133			HOUSING XPONDER		Ιŭ		MA	R		33		62	č	128600	
		Ā	+-	HOLDER CRYSTAL UNIT	-	Ū	MOT	MA	Ř		33		62	Č	108800	
		Â		COVER DUST	l	Ιŭ	мот	MA	R				62	č	110500	
		Ā	<del> </del>	SHELL TUNED CAVITY	-	ΙŬ	MOT	MA	R		33		62	č	115700	
	1520306			SHELL TUNED CAVITY	ŀ	lŭ	мот	MA			33		62	č	119100	
	1522736		<del>                                     </del>	SHELL CAVITY SUBASSY	Т	Ŭ	MOT	MA			33		62	č		0120310
	1522736		l	SHELL CAVITY SUBASSY	ļ	Ιŭ		MA			33	07		č	118300	
i	2129500	Δ	t	CAP FIXED CERAMIC	*	Ιŭ	MOT	MA			33	<u> </u>	-	0		V-2-72
	2129519			CAP FIXED CERAMIC		1 -	мот	MA			33		i i	ŏ		
	2420142		+-	XFORMER RADIO FREQ	-	Ιŭ	MOT	MA		·	33	07	62	c	107800	462013
	2420143			XFORMER RADIO FREQ		ľŭ	мот	MA			33		62	č	108100	
	2420144		╁╌	XFORMER RADIO VCO T3	Η-	Ιŭ	MOT	MA			33		62	<del>- č</del>	108200	
	2420145		İ	XFORMER RADIO VCO T4	l	Ιŭ	мот	MA			33		62	č	108300	
	2420147		-	XFORMER RADIO FREQ	-	ŧΰ	MOT	MA			33		62		108400	
	2420153	В	1	XFORMER RADIO FREQ	l	Ĭŭ.	MOT	MA	R	1	33	1 -	62	č	122500	
	2420154		t	XFORMER RADIO FREQ	┢	Ιŭ	MOT	MA			33	07			122100	
	2420155		1	XFORMER RADIO FREQ	İ	I,	MOT	MA	Ŕ		33		62	č	123000	
	2420156		-	XFORMER RADIO T5	-	Ŭ	MOT	MA			33		62		123300	
	2420157		ļ	XFORMER RADIO TO		١ŭ	MOT	MA			33	07		Č	123600	
	2420165		┯	XFORMER RADIO T3	╌	Ιŭ	MOT	MA			33		62	<del>-</del>	124600	
	2420165		1	XFORMER RADIO 13	l	ľ	MOT	MA	R	İ	33		62	c	124000	
	2420167		+	XFORMER RADIO FREQ	⊢	뜮	MOT	MA			33	· ·	62	<del></del>	124100	
	2420187			XFORMER RADIO TZ	l	ľ	MOT	MA			33		62	č	113200	
	2420185		+	XFORMER RADIO 14	╌	lü	MOT	MA			33		62		113700	
	2420185			XFORMER RADIO 14	l	1,,	MOT	MA		l	33		62	c	114000	
	2420196	В	+-	XFMR RADIO FREQ	┢╌	Ü	MOT	MA			33	+	62	<del>-</del>	126100	
	2420196			XFMR RADIO FREQ	l	ľ	MOT	MA		l	33	07	62	Č	126200	
	2420197		+-	XFMR RADIO FREQ	╌	U	MOT	MA		<del></del>			62		126300	
	2420198			XFMR RADIO FREG	l	U	MOT	MA			33		62	Č	110600	
			╀		⊢		MOT	MA					62			012085
	2420382		1	XFMR RADIO FREQ XFMR RADIO FREQ	ļ	U	MOT	MA				07 07	62	č		012017
	2420384	A	$\vdash$	COIL RADIO FREG	⊢	U	MOT	MA		<del> </del>		107			110000	012085
	2420819	В		TRANSFORMER RF	*		MOT	MA			33	ľ°′.	02	0	113000	012003
			⊦	XFMR RADIO FREQ	۲	+~		MA				107	4.2		119200	012017
	2420820				l	U	MOT					07				
	2420821	ä	!	XFMR RADIO FREQ		U	MOT	MA	ĸ	1	[33	0.7	156	C	177.300	012017

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R	AWING	L1	S 1	. MARINER	R (	52	NUM	RIC	AL	. 8Y C	VIC			PAGE	24	4-12-6	3
1110	DRAWING NO.	8A5H #0.	15	YITLE	8	3	\$5 mee #		-	10 700 1768 1969 164.	8 ( 1 P. 8 7 .	## #0.	71	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
2	2420827	В	1	XFMR RADIO FREQ		U	MOT	MA	R		33	07	62	C		0120176	
c	2420828	8	L.,	XFMR RADIO FREQ	_	U	MOT	MA	R		33	07	62	C		0120176	
n	2420831	В	Г	COIL RADIO FREQ		U	MOT	MA	R		33		62	C		4620823	
-	2420836	В	1	XFMR RF FREQ		ĮŲ.	MOT	MA	R	_	33	0.7	62	C		0120834	
	2420837	В	П	COIL RF FREQ CONVERT		υ	MOT	MA	R				62	C		0120834	
:	2420841	В	1	COIL RADIO FREQ	١.	υ	MOT	MA				07	62	C		0120148	
	2420850	В	T	COIL RADIO FREQ	Т	U	MOT	MA	R			07	62		112500	0120175	I
:	2420864	В	]	XFMR RADIO FREQ VCO		U	MOT	MA	R	1	33	07	62	C		4620863	
	2425202	В		XFMR RADIO FREQUENCY		U	MOT	MA	R		33	07	62		125300	4620186	1
:	2425213	В		COIL RADIO FREQ VARI		ļυ	MOT	MA	R		33	07	62	C	116000	0120176	
	2425214	B	Т	COIL RADIO FREQUENCY	T	U	MOT	MA	R		33	07	62	C	125000	0120171	1
:	2425216	В	1	XFMR RADIO FREQUENCY		U	MOT	MA	R		33	07	62	C	112600	0120175	
	2425217	B	╈	XFMR RADIO FREQUENCY	1	U	MOT	MA	R		33	07	62	C	112700	0120175	
:	2425220	8		COIL RAD FREQ DIVIDE	Į	U	MOT	MA	R		33	07	62	C	122200	0120159	
		В	十	XFMR RAD FREQ CONVER	T	U	MOT	MA	R		33	07	62	C	109400	0120834	
,	2522710	A		FILTER BAND PASS CRY		U	MOT	MA	R		33	0.7	62	C	126500	0120172	
-	2525218		+	FILTER BND PASS CRYS	*	Ū	MOT	MR	52		33	1	1	0		1	_
.		В	1	CHASS ELECT EQUIP	1	lu.	MOT	MA			33	07	62	c	107600	0120148	
	2720104		1	CHASS ELECT EQUIP	+-	tů	MOT	MA				07	62	č		0120171	
		В	i	CHASSIS ELECT EQUIP	1	li.	мот		R		33	07	62	C		0120159	
-		В	+	CHASS ELECT EQUIP	t	ŭ	MOT	MA			33	07		C		0120160	
	2720118		1	CHASS ELECT EQUIP	1	ŭ	MOT	MA			33	07		Ċ		0120172	
	2720121		╁╌	CHASS ELECT EQUIP	1	ŭ	MOT	MA	_			07		Č		0120173	
- 1	2720129			CHASS ELECT EQUIP	1	ŭ	MOT	MA			33	07		1 6		0120177	
	2720129		+	CHASS ELECT EQUIP	╁	ŭ	MOT	MA			33		162	7		0120176	
	2720130		l	CHASS ELECT EQUIP		ľ	MOT	MA			33	•	62	ادً		0120174	
_	2720131	-	╀	CHASS ELECT EQUIP	┼	ü	MOT	MA			33		62	1-5		0120170	
	2720158		1	CHASS ELECT EQUIP	1	10	MOT	MA		1	33		62	l č		0120175	
	2720276		╁	BASE COIL	╁╴	ŭ	MOT	MA	_		33	-	62	7		0120123	
	2726593			CHASS ELECT EQUIP		10		MA	R			07		1 6		0120170	
_	2922698		╁	TERMINAL STUD	*	ŭ	MOT	MA		-	33	0,	196	0		0120210	-
				LUG TERM		1 -	MOT		R	1	33	l	}	0			
_	2926826		╁╌		+-	Ü	MOT	MA				07	140	Č	120700	0120123	-
	3020842			CABLE ASSY RF		10				i	33			Č		0120178	
	3020842	+	╀╌	CABLE ASSY RF	+	10	MOT	MA			-		62			0120178	
	3020843	1-	1	CABLE ASSY RF	İ	υ	MOT	MA			33	07	62	5	120800		
	3020843		+	CABLE ASSY RF	╀	ĮŲ.		MA			33	07	62	5		0120178	
	3020844	1 -	1	CABLE ASSY RF W16W11	1	U	MOT	MA			33	07	62	(		0120123	
_	3020844		1	CABLE ASSY RF W16W11	1-	Ų.	MOT	MA	R		33	0.7	62.		128900		~
	3020851		1	CABLE ASSY	1	U		MA			33		62	C	121000		
•	3000851	8	1	CABLE ASSY	1_	lu	MOT	MA.	R		33	0.7	62	1	129000	0120178	

				CALIFORNIA IN	STIT	UTE	OF TE	CHNOLOG	Y, PASAD	ENA,	CALIF				DATE LISTE	•
7	RAWING	LI	S T	. MARINER	R	62	NUM	ERICA	L BY (	V 10			PAGE	25	4-12-6	. 3
i	DRAWING NO.	# 10.	f	TITLE	3	į	TENGO:	SE STAL	45 FOR 4 (TEN THEB \$10.	1810. 817.	##. #6.	144 411 71.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	1
2	3020852	_	Γ	CABLE ASSY	Г	U	MOT	MA R		33	07	62	C	121100	0120123	Ţ
2	3020853		Ļ	CABLE ASSY	_	U	MOT	MA R	ļ	33	07	62	<u>C</u>	129100	0120178	
	3020894	-	L	WIRE ELEC #25 HF	*	U		MA R	i	33	ļ	i	0			
_	3020897		<u> </u>	CABLE RF	*	U	MOT	MR6		33		L_	0		Ĺ	
		В	Ιi	WIRE GOLD PLATED	*	U	MOT	MA R		33	1	i	0			
		В	L	WIRE ELEC #25HF	*	U	MOT	MA R		33		İ	0			
		В		CONTACT ELECTRICAL		U	MOT	MA R		33	07	62	C	115000	0120310	
		В	L	CONTACT ELECTRICAL	L	U	MOT	MA R		33	07	62	c	118400	0122726	
		В	1	CONTACT ELECTRICAL	Г	Ū	MOT	MA R		33	07	62	C		0120310	
	3920222	A	L	CONTACT EL MIXER		lυ	MOT	MA R	1	33	07	62	c		0120856	
١	3920298	A	l	CONDUCTOR SECTION	П	U	MOT	MA R		33	0.7	62	C	115200	0120310	
	3920298	Α		CONDUCTOR SECTION	1	υ	MOT	MA R		33	07	62	Č		0122726	
1	3922720	A		CONTACT STRIP		ΙŪ	MOT	MA R		33	0.7	62	Č		0120123	
	3922745	A	L	CONTACT ELEC MXR LWR		U	мот	MA R		33	07	62	č		0120170	
	4220224	A		RETAINER SEMICONDUCT	П	Ü	MOT	MA R		33	07		Č		0120170	
	4220323	A	H	RETAINER CABLE	*	Ū	MOT	MA R		33	١٠.		ò		0120170	
1	4220814	8	П	RETAINER CABLE	*	ŭ	MOT	MR 6		33	_		ō	-		
1	4225212	В	ΙI	SUPPORT CABLE RET	*	ŭ	MOT	MR6		33		1	l ŏ l			
7	4320233	A	П	ALIGNMENT DEVICE		ŭ	MOT	MA R		33	0.7	62	č	115300	0120310	
	4320233	Α	LI	ALIGNMENT DEVICE	ĺ	ū	MOT	MA R		33		62	č		0122726	
7	4322746	A		BUSHING CONTACT ELEC	Г	u	MOT	MA R				62	Č		0120123	
1	4620101	В		BLOCK MTG SMALL VCO		Ιŭ	MOT	MA R		33		62	c		4620138	
1	4620105	В		BLOCK MTG XSISTOR	1	u		MA R		33	07	62	č		4620186	
1		В		BLOCK MTG XFORMER	ŀ	١ŭ	мот				07		c		4620152	
		В		BLOCK MTG XFORMER	-	ŭ	MOT	MA R				62			4620169	
Ì		В		BLOCK MIG XFORMER		ŭ	MOT	MA R		33	07	62	c			
		В		BLOCK MTG XFORMER		ŭ	MOT	MA R			07				4620179	
		В		BLOCK MTG XFORMER		U	MOT	MA R				62	č		4620180	
		В		BLOCK MTG RF DET	Н	Ü	MOT	MA R			_	62	Č		4620181	
- 1		a l		BLOCK MTG XFORMER		ŭ	MOT	MA R			- 1	62	c		4620161	
		В		BLOCK MTG XFORMER	Н	v.	MOT	MA R				62	2		4620149	
	4620112			BLOCK MTG FREQ		ŭ	MOT	MA R			07		د ا		4620151	
	4620113			BLOCK MIG XFORMER	$\vdash$	V	MOT	MA R	-		_	62			4620150	
	4620114			BLOCK MTG		υ	MOT	MA R		33		62	ا د		4620117	
	4620117			BLOCK MTG FREQ DIVID	-	Ŭ	MOT	MA R				62	<u> </u>		4620162	
	4620122			BLOCK MIG FREE DIVID	!	u	MOT	MA R		33		62			0120159	
		B		BLOCK MTG	Н	Ü	MOT	MA R				62	C		0120168	
- [		8		BLOCK MTG SECOND IF		Ü	MOT		[			62	C		0120173	
-	4620135			BLOCK MTG FREQ	Н	_		MA R		33		62	<u>c</u>		0120199	
		В				U	MOT	MA R				62	C		0120834	
1	4050130	D		BLOCK MTG VCO TI		υl	MOT	MA R		33 I	07	62	C	107700	0120148	

				CALIFORNIA II	NSTII	UTE	OF TEC	HNOL	OGY	, PASADI	ENA.	CALIF.				DATE LISTE	D
F	RAWING	LI	s t	MARINER										PAGE	26	4-12-6	3
i	DRAWINS NO.		1 :	TITLE	1	3	*****		4400	11 FOE 176# THEW \$ED.	013P.	#0.	1410 171	DRAWING CONTROL STATUS		NEXT ABSEMBLY	1
8	4620149		Г	BLOCK MTG FREQ DIVID		υ	MOT		R		33	07	62	C		0120159	
3_	4620150		Ļ.,	BLOCK MTG FREQ DIVID		U	MOT	MA			33	07	62	С	122900	0120159	
•	4620151		1	BLOCK MTG FREG DIVIC		U	MOT	MA			33	07	62	C		0120159	
	4620152		┡	BLOCK MTG FREG DIVID	4	U	MOT	MA			33	07	62	_ C		0120159	
	4620161			BLOCK MTG SUBASSY		U	MOT	MA			33		62	C		0120160	
	4620169		⊢	BLOCK MTG RF DETECTR		ļ <u>u</u>	MOT		R		33	07	62	C		0120160	
		В		BLOCK MTG AUX OSC Q1 BLOCK MTG AUX OSC Q2		U	MOT	MA			33	07	62			0120175	
	4620180		⊢	BLOCK MTG AUX OSC Q3		ļ <u>u</u>		MA				07	62	<u> </u>		0120175	
	4620181	В		BLOCK MTG AUX OSC Q5		U	MOT		R		33	07	62	٠,		0120175	
		B	┢	BLOCK MTG FIRST	+-	밥	MOT	MA				07		C		0120175	_
	4620203		A	BLOCK MTG ANGLE		ľ		MA				07	62	C		0120171	
	4620204			BLOCK MTG XSISTR LG	╁	H	MOT	MA		_			62			4620207	~
		A	ı.	BLOCK MTG XSISTR LG	1	Ιυ	,	MA	· · · I			07		c		4620207	
		Â	-	BLOCK MTG XFMR	+	<del>lŏ</del>		MA				07				4620255	-
		Ä		BLOCK SUBASSY MTG	1	lŭ		MA			1	07	1	č		0120123 4620815	
-		Â	Н	BLOCK SUBASSY MTG	+	l <del>u</del>		MA				07				4620823	-
		Ä		BLOCK SUBASSY MTG	1	ŭ	MOT			i		07		č			
	4620209		A	BLOCK MTG XSISTR	+-	lŏ			R				62			4620825	-
	4620223	A		BLOCK MOUNTING DIODE	1	lŭ l		MA	R	- 1	1		62	ا د		0120855	
	4620254		Н	BLOCK MTG AGC AMPL	+-	ΰ			R			07		č		4620255	-
ł	4620255	A		BLOCK AGC AMPL	1	ŭ			R	ł			62	č		4620845	
		A		BLOCK AGC AMPL	1	ŭ		MA	R		-	07		- c		4620846	-
		Ä		BLOCK AGC AMPL	1		MOT		Ŕ			ا 70		č l		4620847	
1		A		BLOCK AGC AMPL	+	ŭ		MA	R				62	- c		4620848	1
1	4620255	A		BLOCK AGC AMPL	Į	ŭ	MOT			- 1		- :	62	č		4620849	Ì
		Ā	Н	BLOCK MTG XFMR	+-	Ιŭ		MA	Ř				62			0120173	1
		в		BLOCK MTG FREQ MULT	1	Ιŭ.	MOT		ŘΙ	- 1		- 1	62	ا د		0120177	ı
~		В		BLOCK MTG FREG MULT	+-	ŭ	MOT		R				62	-		0120177	1
	4620822		ļļ	BLOCK MTG FREQ MULT	1	Ιŭ		MA	ŘΙ			- 1	62	č l		0120177	j
		В		BLOCK MTG FREQ MULT	1	-	MOT		Ŕ			07				0120176	1
1	4620824	В		BLOCK MTG FREQ MULT	1	ΙŪΙ	MOT	MA	R	1	1		62	č l		0120176	١
1	4620825	В		BLOCK MTG FREG MULT	Т	_			R			07		č		0120176	t
	4620826		-	BLOCK MTG FREQ MULT	1				R		1		62	č l		0120176	į
1	4620845	B		BLOCK MTG AMPL	Т	Ū	MOT	MA	R				62	č		0120174	İ
I	4620846	В	- 1	BLOCK MTG AMPL	1	ΙūΙ	MOT	MA	R				62	č		0120174	١
1	4620847	В		BLOCK MTG AMPL	1-	Ü	MOT	MA	R			071		<u>-</u>		0120174	t
1	4620848	В	ļ	BLOCK MTG AMPL	1	ا با	MOT	MA	R			- 1	62	č		0120174	١
1	4620849	В		BLOCK MTG AMPL	1	-			R			-	62	č		0120174	t
١	4520854	в		BLOCK MOUNT AUX OSC	1	I - I			Р				62			0120174	

JET CALIFORNI MARINE	A INSTIT	UTE	OF TEC	HNOLOGY		ENA, C			PAGE	27	4-12-63	
ITLE	1	Ę	75 M DO B		E 1784	SESP.		EAST ATE	PRAWING LONTROL		NEXT ASSEMBLY	9
	- "	5		MA R	THEU SEE.		<b>*</b> 0.	FR.	STATUS	108600		- 0

DR	AWING	L1	s t	. MARINER F		52	MUN	R J	CAL	BY D	ΝĮν			PAGE	27	4-12-63	3
n I i	DRAWING NO.	BATH BO:	15	TITLE	Çĸ <b>ę</b> .	CLASS	75 M BO B	-	BELEA		SESP.	*0.	18 18	PAWING LONTROL STATUS		NEXT ASSEMBLY	9
-	4620861	9	-	BLOCK MTG VCO	$\vdash$	ū	MOT	MA			33	0.7		С	108600	4620863	Ė
	4620863		ľ	BLOCK MTG SUBASY VCO		Ĭ	мот					07		i c	108000	0120148	
	4622687	-	<b>1</b>	BLOCK MTG XSISTOR		Ιŭ	MOT					0.7		Ċ		4622695	
	4622694			BLOCK MTG X16 MULT		Ιŭ	MOT					07		ć	117500	4622695	1
	4622695		1	BLOCK SUBASSY MTG	Н	Ū	MOT	МА			33	07	62	C .	119800	4620818	
	4622695		ı	BLOCK SUBASSY MTG		ΙŪ	MOT	MA	R		33	07	62	C	120000	4620822	1
	4622695		t	BLOCK SUBASSY MTG		ΙŪ	MOT	MA	R		33	07	62	C	117300	4620826	ļ
	4625203		1	BLK MTG MTL XSISTR		Ιŭ	MOT	MA	R			07			125600	4625204	
	4625204		t	BLOCK MTG	$\vdash$	ŭ	MOT	MA				07		Č	125500	0120171	i
	4625206			BLK ASSY MOUNTING		تا	MOT					0.7		C 1	125700	0120171	
	4625228		+	BLK MTR TRANSISTOR		ū	MOT				33			C		0120123	Π
_	4820887			CAP VOLT VAR	*	Ιŭ	MOT				33	•	-	0			
	4820888		+	SEMICON DEV DIODE	*	Ιŭ	MOT				33			0			Π
	4820889		1	SEMICON DEV DIODE	*	Ιŭ	MOT				33			0		1	
_	4820890		+	SEMICOND DEV 1N831	*	lü	MOT				33	-	1	0			
	4820891			DIODE SILICON	*	Ĭŭ	MOT	1			33		! :	0			
_	4820892	-	+-	TRANSISTOR 2N708	*	Ιŭ	MOT		Ŗ		33	1	-	0			
	4820892	В		TRANSISTOR 2N1711	*	u	MOT				33	ļ	ļ	0			
_	4820893	L	+-	TRANSISTOR 2N329A	*	ŭ	MOT	MA			33			0			
	4820896			CRYSTAL QUARTZ	*	Ιŭ	MOT	MA			33	1	1	0			١.
С	4822700		+-	CRYSTAL UNIT QUARTZ	1	u		MA				07	62	C	108700	0120148	Г
	4822700			CRYSTAL UNIT QUARTZ	l	U	MOT		R		33		62	٠	114100	0120175	L
	4920225		†	DISK CENTER TUNED	T	Ιŭ		MA			133	0.7			115400	0120310	Г
	4920225			DISK CENTER TUNED	ļ	Ιŭ	MOT		R				62			0122726	1
	6222688		+	ADHESIVE CONDUCTIVE	*	Ü	MOT	MA	R		33	Ť		0			T
	6222689			ADHESIVE	*	10	MOT	MA	R		33		ŀ	0			
_	6222693		+	INSULATING COMPOUND	*	ŤŪ	MOT	MR	6		33	1	:	Ü			Γ
	6320611			DETECTOR RF	*	ΙŪ	MOT	MA	2		33		i	U		ŀ	
F	6320802		+-	CONVERTER FREQ SCHEM		U	MOT	MA	R		33	07	62	<	111200	0120170	1
	6320803			OSCILLATOR AUXILLARY	1	U	MOT	MA	R		33	07	62	C	114200	0120175	İ
Ď	6320804		1	FREQ MULTIPLIER	1	ĺυ	MOT				33		62	C	120100	0120177	Т
	6320805		}	FILTER LOW PASS		111	MOT				133	0.7	62		112300	0120173	
F	6320806		1-	OSCILLATOR RADIO	1-	u	MOT				133	07	62	Č		0120148	Ţ
	6320807		1	FRED MULT' SCHEMATIC		lu	1 -		R		133	0.7	62	1 3		0120176	
	6320808		+	AMPLIFIER DIREC SCHM	1	Τŭ	MOT		R		33	0.7	62	<u> </u>		0120174	
	6320809			AMPL INMEDIATE SCHEM		ĺΰ	MO 7	MA			33		62	C		0120172	
F	6320810		+	AMPLIFIER FIRST	T	tũ	MO-	M/	R		133	07	62		125800	0120171	1
	6320811		1	DETCTOR SCHEMATIC		Ιŭ		MA	R		33		62	c	124800	0120160	
Ť	6320912		+-	FREG DIVIDER	t	Ιŭ	MOT	MA	R		133	167	62		123800	0120159	7
	6322604			SCHEMATIC	*		MOT				133		. "	1 6	145650	25382	

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	DRAWING NO.	BASH HO.	4 t	TITLE	3	3	******	MAJOR ITEM	9157. 910.	PRICEASE DATE MD. 14	DRAWING CONFROL STATUS		NEXT ASSEMBLY
┥	6325240			SCHEMATIC	*	lυ	мот	MA R	33	1 777	0	149910	25284
١	6325240			SCHEMATIC	*	ŭ		MA R	33	1   1	ō	164410	25284
1	6325241		-	SCHEMATIC	*	Ιŭ	MOT	MA R	33	1 - 1 1	0	160110	25318
	6325241			SCHEMATIC	*	Ιŭ	MOT	MA R	33		o	162510	25318
_	6325242		-	SCHEMATIC	*	Τū	MOT	MA R	33		0	150610	25297
	6325242			SCHEMATIC	*	Ū	MOT	MA R	33	1	0	159810	25297
-	6325242	-		SCHEMATIC	*	lu	MOT	MA R	33		ő	162210	25297
1	6325242			SCHEMATIC	*	lu	MOT	MA R	33		0	165010	25297
d	6325243		t	SCHEMATIC	*	U	MOT	MA R	33		0	153410	25374
1	6325243			SCHEMATIC	*	U	MOT	MA R	33		0	161210	25374
	6325243	-	Т	SCHEMATIC	*	U	MOT	MA R	33		0	162710	25374
	6325243			SCHEMATIC	*	U	MOT		33		0	165710	25374
T	6325243		$\overline{}$	SCHEMATIC	*	U	MOT	MA R	33	1-1	0	166810	25347
	6325244			SCHEMATIC	*	lυ	MOT	MA R	33		С	149610	25278
	6325245			SCHEMATIC	*	U	MOT	MAR	33		C	150210	25287
	6325246			SCHEMATIC	*	U	MOT	MA R	33	1 ! !	0	149210	25275
-	6325246		Τ-	SCHEMATIC	*	Īυ	MOT	MA R	33		Ć .	164310	25275
	6325247		ļ	SCHEMATIC	*	ĺυ	MOT	MA R	33		Ç	157010	25335
-	6325248		Τ-	SCHEMATIC	*	U	MOT	MA R	33		C	154810	25281
	6325249			SCHEMATIC	*	ŀυ	MOT	MA R	33		<u> </u>	158310	25366
	6325250		Γ	SCHEMATIC	*	U	MOT	MA R	33		C	151310	25328
	6325251		1	SCHEMATIC	*	ĮŲ	MOT		. 33	1	C	152810	25364
	6325252		Γ	SCHEMATIC	*	U	MOT	MA R	33		C	156210	25325
	6325253			SCHEMATIC	*	Įυ	MOT		33		0	158010	25362
_	6325254			SCHEMATIC	*	U	MOT	MA R	33		0	155810	25322
	6325255			SCHEMATIC	*	12	MOT		33		C	152310	25363
_	6325256		Г	SCHEMATIC	*	Įυ	1		33		0	160710	
	6325257		1_	SCHEMATIC	*	1 2	MOT		33		<u> </u>	161110	25361
_	6325257		Ι	SCHEMATIC	*	U	MOT		33		0	162610	25361
	6325257		1	SCHEMATIC	*	U		MA R	33		0	166710	25361
	6325258	-	П	SCHEMATIC	*	U	MOT	MA R	33		0	165410	25350
	6325259		İ	SCHEMATIC	*	Įυ	MOT	MA R	33		0	155210	25291
_	6325259		1	SCHEMATIC	*		MOT	MA R	33		0	159710	25291
	6325259			SCHEMATIC	*	U			33			162110	25291
	6325259		T	SCHEMATIC	*	-			33		0	164610	25291
	6325259		İ	SCHEMATIC	*				33		O	166410	25291
	6325260		Ī	SCHEMATIC	*		MOT		33		0	161810	25288
	6325260		1.,	SCHEMATIC	*	<del>-</del> -		MA R	33		O	164510	25288
	6325260		Γ.	SCHEMATIC	*	iu	MOT	MA R	33	1 1	0	166310	25288

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)	RAWING	L L I	s t	CALIFORNIA IN MARINER								CALIF		PAGE	29	4-12-6
2115	DRAWING NO.	940H NO.	# £	TITLE	#	3	72=901 COOS	F.		#E 704 1176# 1489 #16	171P.	¥0.	EASE ATE	DRAWING CONTROL STATUS		HEXT
_	6325262		t	SCHEMATIC	*	lυ	MOT	MA		1410 114.	33		10.	0	153210	25365
	6325263			SCHEMATIC	*	Ιū	МОТ	MA	R		33		!	ō	151710	
	6325354			SCHEMATIC	*	Ū	MOT	MA	R		33			0	153910	25384
	6325356			SCHEMATIC	*	lυ	мот	MA	·R		33		! 1	ō	164910	25294
	6325357			SCHEMATIC	*	ĺυ	мот	MA	R		33		1	ō	156810	25332
	6420882	8	!	PLATE TUNED CAVITY	*	Ū	MOT	MA	R		33			ŏ	130010	23332
₿	6420291	A		PLATE END TUNED CAVE	t	ŭ	MOT	MA			33	0.7	62	Č	115500	0120310
В	6420291	A		PLATE END TUNED CAVT	ı	Ιŭ	MOT	MA				07	62	č		0122726
₹	6420882	В		PLATE TUNED CAVITY	†	Ιŭ	MOT	MA			33	-	62	c		0120310
c	6420882	В		PLATE TUNED CAVITY	1	Ιŭ		MA			1	07	1	Č		0122726
	6922594		1	LOGIC DRAWING	*	ŭ	MOT	MA	_		33	V.,	-	0		
	6922594		li	LOGIC DRAWING	ļ.,	l.	MOT	MA			33		, ,	0		4600309
	6925266		П	LOGIC DRAWING	*	lΰ	MOT	MA			33	_	-	0		4600311
Ω		A	li	FORM COIL	*	1 -							1	0		4600310
B		B				+-		MA	R			07	_			0120123
-		_		FORM COIL	)	U	MOT	MA		1			62	C		7720835
В		A B	$\vdash$	FORM COIL X16 TUNING ASSY		U	MOT	MA			33	07	62	C		0120177
_	1120033	·		1001100 A331		U	мот	MA	_		33	07	62	C	111300	0120170
		3		RIB		U	RAN	MA			33			0	129300	4300194
		4		TUNING BLOCK		U		MA			33			0	129400	4300194
_		5		RESONATOR	L	U	RAN	MA	R		33			0	129500	4300194
- 1		7		DISPLAY FILTER FL204		U	RAN	MΑ	R		33			0	129600	4300194
	6141502	5		FILTER HOUSING		U	RAN	MA	R		33			o 1	129700	4300194
Ì	6141502	6		COVER		υ	RAN	MA	R		33			0		4300194
	6141502	2		TEFLON SUPPORT		υ	RAN	MA	R	- 1	33			0		4300194
	6141504	7		FILTER ASSY FL204		U	RAN	MA	R		33			0		4300194
- 1	6141504	1		DIELECTRIC SUPPORT		u i	RAN	МА	R	- 1	33	- 1	. 1	0		4300194
	6141504	2		ANT COUPLING ASSY		U	RAN	MA			33		$\dashv$	- <del>0</del>		4300194
		3	- 1	SET SCREW		ŭ		MA	- 1		33	į	- 1	o l		4300194
		4		SUPPORT ROD	Н	ŭ		MA			33		-+	Ö		
- {		5		RESONATOR SHAFT			RAN		R		33			ŏ		4300194
-1	6141504			SUPPORT NUT	Н	Y		MA				<u>i</u>				4300194
İ		2		CD ANTENNA CPLR 2A15				MA			33		- 1	0		4300194
A	6151002			EXTENSION							33			0	006200	4100306
- 1		-				U	RAN	MA	R		33	i	1	0	i	
	6151002			CENTOR CONDUCTOR ASY	_	-		_	R		33			0		
		5		SCREW CONN LOCK		- 1		MA	R		33	į	- 1	0	l	
3 ]	6151002	D	,	MOUNTING PLATE	*	U	RAN	MΑ	R	- 1	33		1	a 1		

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R	AWING	i LI	ST	MARINER I	R	62	NUM	ERICA	L BY (	VIC			PAGE	30	4-12-6	3
	DRAWING NO.	941# 80.	1 1	TITLE	1	200	7E#869	SEPIEL SEPIEL	481 708 8 1714 THEU SEE.	8118. 817.		TR.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
	6151002		1	SCREW MODIF	*	Ū	RAN	MA R		33		1	ō			
	6151002		┺	INSULATING SPACER	*	ļυ	RAN	MA R		33		$\sqcup$	0			
		9	İ	SPACER	*	U	RAN	MA R	i	33			0		1	
	6151003		+	EXTENSION	*	U	RAN	MA R	<b>.</b>	33						_
		1	1	INSULATING SPACER	*	U	RAN	MA R	1	33			0		]	
	6151003	3	ļ.,	INSULATING SPACER	*		RAN	MA R	1	33			0			
	6151003			INSULATING SPACER	1.	U	RAN	MA R	Í	33			0			
_		5	+-	INSULATING SPACER RESISTOR HOLDER	*	U	RAN	MA R	ļ	33		-	0			_
		6  7	ł			1 -		MA R	1	33		i i	0		i	
_	6151003		╀	RESISTOR ASSY	<del>*</del>	U.	RAN	MA R		33		-	<del>- 2</del>		<b></b>	_
	6151003		1	INNER CONDUCTOR	*	lu u	RAN	MA R		33	į		0		l	
		0	+-	INNER CONDUCTOR	녙		RAN	MA R		33		$\rightarrow$	0			_
	6151004	J ~		COUPLER HOUSING	*		RAN		ļ				- 1			
	6151004		+	BEAD	-		RAN	MA R	ļ	33		$\rightarrow$	0			_
	6151004	3				1-			l	1			- 1			
_			+	SLEEVE	*		RAN	MA R	<b>!</b>	33		_	0			_
		3	1	INSULATOR	1.	U	RAN	MA R	1	33	ı		0			
	6160500		╀	CIRC & POWER MONITOR	*		RAN	MA R		33		-	0		<b></b>	_
	6160501	3	1	HOUSING LOWER		1 -	RAN	MA R		33			0		1	
	6160501 6160501	7-2	+	HOUSING UPPER	*		RAN	MA R		33		$\rightarrow$	8			
- 1		9		BRACKET	I.		RAN	MA R		33		- 1	0		ì	
		5	+	CONNECTOR	1				<del></del>		<del>- i</del>	$\rightarrow$				_
		8			1.		RAN	MA R		33			0			
-4		6	+	BRACKET SUPPORT CONNECTR SPEC TYPE N	1	U	RAN	MA R		33		$\rightarrow$	0			
- 1		7-1		HOUSING	-	1 - 1	RAN	MA R		33	į		ŏ		İ	
_		4	₩	HOUSING LOWER	<del>"</del>		RAN	MA R		33	<del>- i</del>	$\rightarrow$	0			-
- 1		2		SPIDER	*			MA R		33	į		0			
		9	+	SPACER	1	-	RAN	MA R	-	33	- 1	$\rightarrow$	0		<del></del>	
- 1		3			*		RAN	MA R			Ì	- 1	0			
	6160502		+-	RESISTOR HOUSING	÷		RAN	MA R		33			0			-
	6160502	1		=	<del>"</del>	U	RAN			33	į		- 1			
	6160502	<u>+</u>	+	MOUNTING BRACKET MOUNTING BRACKET	*	·	RAN	MA R		33			0			-
	6160502			MAGNET				MA R		33	1		0		ì	
	6160502		-	FERRITE	_	_		MA R		33	<del> j</del>		- 0		<del></del>	-
	6160502			POLE PIECE	*			MA R		33	į	- 1	ŏ			
		4	+	LOAD SUBASSY	*	-	RAN	MA R		33			0		<del> </del>	-
- 1		2		CENTER CONDUCTOR	*	- 1		MA R		33	l	- 1	0			
-		9	H	TUBE ASSY	*	-	RAN			33	<del>- j</del>	+				-
- 1		8		FLANGE	*	U	RAN	MA R		33	ļ	į.	0			

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				CALIFORNIA INS MARINER R								BLIF.	PAGE	31	4-12-6	3
, K	AWING	b4111	15	TITLE	1	3	VEHPPB COOK	L	HAIG	151 704 6 178#	REST.	PO YE.	DRAWING CONTROL STATUS	·	NEXT ASSEMBLY	1
-	6160503	7		TUBÉ	*	u	RAN	MA		7,000	33		0			1
	6160503	5		RESISTOR HOLDER	*	Ιŭ	RAN	MA	R	l	33		0			1
	6160503		1	PLATE	*	ŭ	RAN	MA	R		33		0			1
	6160503			BEAD	*	U	RAN	MA	R		33		0			╀
	6160503	0	T-	LOCKING NUT	*	U	RAN	MA	R		33		0			1
	6160503	3		SUPPORT	*	ļυ	RAN	MA	R		33		0			1
	6160504	6	T	DIODE	*	Ū	RAN	MA	R		33	- 1	0		i	1
	6160504	4	l	INNER CONDUCTOR	*	ļυ	RAN	MA	, R	L.,	33		0			1
	6160504	0	T	INSULATOR	*	U	RAN	MA	R		33		0			
١	6160504	lı	l	INSULATOR	*	U	111111			ļ	33		9			+
	6160504	3	Г	INNER CONDUCTOR	*	Įυ				İ	33	i	0			ł
٥	6160504	9	١	COUPLER HOUSING	*	Įυ					33		0			+
A	6160504	2	Г	PLATE	*	Įυ				İ	33	1	0		i	1
οl	6160504	В	1	HOUSING MACH	*	Įυ	RAN	M/		<u> </u>	33		0			+
c	6160504	7	П	COVER	*	U					33	į	0		+	
4	6160505	9		LOAD ASSY	*	Ų				<u> </u>	33		0			+
Ē	6160505	0	Т	SPIDER ASSY	*	Įυ				1	33		0		1	-
c	6160505	7		COVER	*	Įυ					33		0			+
Ā	6160505	8	T	TUNING SCREW	*	U	RAN	I MA	k R	Ì	33		0		1	
В	6160506	15	1_	COUPLER SUB-ASSY	*	<u>lu</u>	RAN			<del> </del>	33		0			+
A	6160506	7	Т	SPACER	*	ļυ	RAN	L M/	۱R		33	1	0			-
c	6160506	6		DIRECTIONAL CPLR ASY	*	Jυ	RAN		<u> R</u>	↓	33		0		<del></del> -	-+
	6160506	9	Т	SCREW MODIF	*	Įυ	RAN		A R	1	33		0			-
В	6160508	17		POLE PIECE	*	Ju	RAN		A R	<b>↓</b>	33		0			4
В	6160508	8	Т	SHUNT	*	Įυ	RAN	i M	A R	1	33		0		1	-
	6160509	1	١.	CIRC & PWR MON SCHEM	*	Įψ	1				33		0			+
В	6160510	7	Т	CONTACT ASSY	*	۱ ۷			A R		33		0		1	
в	6160510	6	<u> </u>	CONTACT PLATE	*	JU			4 R		33	i	0			+
Ā	6160510	5	Т	CRYSTAL SLIP	*	1~			A R		33		0		-	- 1
Α	6160510	3	L	CUP	*	+*	RAN		4 R		33	<u> </u>	9		+	+
A	6160510	4		CONTACT PLATE	*	1 -			A R		33		0			
A	6160512	5	1_	INSULATION	*	<del>, ,</del>	RAM		A R		33	<u> </u>	<u> </u>		<del></del>	-+
A	6160512	8	l	CRYSTAL CAP	*	10			A R		33		0			1
В	6160512	7-1	L	MONITOR PROBE ASSY	*	+×	4		A R		33		0		<del></del>	
A	6160513	4		HOLDER	*	Ţ۲					33		0			İ
Α	6160513	3		RESISTOR HOLDER	*	. ↓-≃			A R		33	ļ i	0		+	
В	6160513	0		CONNECTOR	*	1			A F		33		0			1
В	6160513	1_	_	TERMINAL BOARD MODIF	*	1	RAI	N M	A F	4	33	ļ - <del> </del>	0		+	-
			1	1						1						
_	ENGTES CHANGE		1.	<u> </u>	1							<u> </u>	<del></del>		JPL 0513 JU	UNE

P	AWING	, ,	СŦ	JET PRO CALIFORNIA INS MARINER R	TIT	UTE 52	OF TEC	HNOL	OGY	, PASADI	NA,			PAGE	32	4-12-6	
K	AWING		-			1.	· -	_	****	11 700	1112		1461	DRAWING		MEST	Т
: I	DRAWING NO.	BASK NO.		TITLE	1	1	CCD1			1 HEW SEP.	av.	HO.	7 8	CONTROL		NEXT ABSCHBLY	1
+			-			Ť		•••	***	1.00			,,				1
+			╁			u	тI	MA			33			0	172100	449104	
3	449101		↓	PCB SW MODULE UPPER	├	u	ΤĪ	MA			33			0	174200	457763	
= [	449102		1	SWITCH HIGH LEVEL	1	Ü	Τi	MA			33			o l	172200	449104	
3	449103		+-	PCB LO LEVEL SWITCH	ŀ	Ü	ΗÌ	MA			33	<del> </del>	1	Ö	172000	457789	7
9	449104		İ	SWITCH LOW LEVEL		ľű	ΤÎ	MA			33	1		Ö	179800	460073	3
٤	449104		+	SWITCH LOW LEVEL	╀	Ü	Ηi	MA	R		33	+	<del>  </del>	0	175000	457782	7
3	457738		1^	GROMMET TEFLON #2	1	ľű	lτί	MA	R	1	33	i		ŏ	172300	449104	+
3	457739		+-	INSULATION SH ELECT	┼	Ü	ΤÍ	MA			33	-	!	0	172400	449104	
В	457740		A	INSULATION SH ELECT	1	ŭ	ΤÎ	MA			133		!	Ö	175100	457782	2
1	457740		A	SHIELD SWITCH	+	Ιŭ	ΤĪ	MA		1	33	1	!	ō	172500	449104	÷
	457744		A	SHIELD SWITCH		ŭ	ΤI	MA		1	33			0	175200	457782	2
-	457762		╀	PCB DECKS C&D	+-	ťΰ	ŤΪ	MA		<del> </del>	33	-	1	0	174300	457763	3
,	457763			SOLID STATE DES CED	İ	lu	TI	MA	R	1	33		1 1	0	174100	460805	ŝ
	457768	<u> </u>	+	PCB DECKS AGB	╁	ΙŬ	TI	MA			33	+	1	0	175800	457769	į
		1	1	SOLID STATE DKS A&B	1	Ιυ	τī	MA		1	33	1	į	o o	175700	460805	5
2	457769		+	SCHEM SW LOW LEVEL	+-	Ιŭ	TI		R	<del>                                     </del>	33	1	!	0	172600	449104	4
3	457770		1	PCB UNIV BISTABLE #1		lii	Τī	MA			33		1	o o	174500	457777	7
<u>B</u>	457775		+	PCB UNIV BISTABLE #2	1	Τŭ	ΤI		R		133	1		0	174600	457777	7
В	457776	ł	١.	UNIV BISTABLE MODULE	1	ľů	Τi	MA		1	33		1	0	174400	457763	3
Ξ.	457777	<u>├</u> -	- A	UNIV BISTABLE MODULE	+-	15	+	MA		<del> </del>	33	<del></del>	1	0	175900	457769	9
Ċ	457777	1	١A	UNIV BISTABLE MODULE	1	Ιŭ	1 , -	MA			133		1	ŏ	176700	460023	3
<u>c</u>	457777	├—	A	UNIV BISTABLE MODULE	+-	Τŏ	+	MA			33		1	0	177100	460025	5
Č	457777	Ĭ	Ä			lŭ	1	MA		1	33		1	0	173000	46003	7
<u>c</u>	457777	<u> </u>	TA		十	Ťů	-	MA			133			0	178400	460049	5
ζ.	457777		I A			Ιŭ	4 '	MA	R		33	1	1	0	179900	460073	3
ç	457777		12			ΙŪ		MA	R	1	33	1		0	169900	460892	2
_	457777	1	IA			Ιŭ		MA	R	1	33		ļ	0	170300	460894	4
5	457778	-	+-	SCHEM UNIV BISTABLE	†~	Ť	TI	MA	R		33		-	0	174700	45777	
č	457779	1		SCHEM HI SPD BINARY	1	Ιũ	TI	MA	R	1	33	. ]	ì	0	174800	45777	7
В	457780	+		PCB SW FLIP FLOP LO	T	ī	TI	MA	R		33			0	175300	45778	
В	457781	1		PCB SW FLIP FLOP UP_		l	ITI	MA	\ R	.	33	H	i	0	175400	45778	
<u>-</u>	457782	+	+	SWITCH FLIP FLOP	T	ί	TI	MA	R		33	1		0	174900	45776	
Ċ	457782	1	- 1	SWITCH FLIP FLOP	1	Ιũ	TI	M.	A R	1	33	1	1	0	176000		
눈	457782	+	+	SWITCH FLIP FLOP	+	Ť	-	M/	R		33	5	1	0	179000		
_	457783	i	1	SCHEM SW FLIP FLOP	1	٦		MA	R		33		. i	1 0	175500		
F	457788	+-	+	PCB DECKS E&F	+		ITI	M			33		1	0	172700	45778	, 5
P	457789		Į	LO LEVEL SWS DKS E&F	:	-li		M	. R		33	3	1		171900	46080	

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D	RAWING	LI	S 1	- MARINER I	R (	52	NUM	ERI	CAL	BY D	V 10			PAGE	33	4-12-6	3
Ē	DRAWING NO.	946H 80.	1	FITLE	#	1	YE #999			41 FOR	atse.		EASE FE	CONTROL		HEXT	1
R	457790		╁	SCHEM LO SPEED CTR	μ.					THED SER.	BIY.	HO.	11.	STATUS			f
R	457790		1	SCHEM LO SPEED CTR	ı	U	ŤΙ	MA			33			0	172800	457789	
F	457795		1	PCB AMPL LOW BAND	┢	Ŭ	ΤĪ	MA			33	-		0	173100	460037	
D	457796		ł	AMPLIFIERS LOW LEVEL		lυ	ΤÎ	MA						0	171000	457796	į ,
R	457797		Τ-	SCHEM AMPLSESIG COND	<del> </del>	Ü	ΤĪ	MA			33		_	0	170900	460807	Ш
R	457797			SCHEM AMPLSGSIG COND	l	U.	ΤÏ	MA	R		33			0	171100	457796	1 1
B	460005		-	PCB MATRIX PN GEN LO		U	TI	MA			33			0	171300	460083	Ш
В	460006		l	PCB MATRIX PN GEN UP	i		ΤÍ	MA	R		33	į		0	180100	460007	
7	460007			MATRIX PN GENERATOR	Н	5	TI	MA			33	1		0	180200	460007	_
C	460008			SCHEM MATRIX PN GEN		וֹט	ΤĪ	MA	R		33	ĺ		0	180000	460073	1
В	460009			PCB LO SPEED CTR LOW	-		ΤĪ	MA	_		33	<del>i</del>			180300	460007	ш
В	460010			PCB LO SPEED CTR UP		ŭ	ΤĪ	MA	R		33	ļ	ı	0	173300	460011	
C	460011			MATRIX LO SPEED CTR			Τİ	MA			33	$\dashv$		0	173400	460011	1
C	460012	_	1	SCHEM LO SPEED CTR		ŭ	ΤÎ	MA	R		33	- 1		0	173200	460037	. 1
F	460022			PCB BLIP REGISTER #1			TI		R		33	-+	$\rightarrow$	0	173500	460011	—
D	460023			BLIP REGISTER #1			ΤĪ	MA			33	- 1		ŏ	176800	460023	
F	460024		П	PCB BLIP REGISTER #2	_		ΤĪ		R		33			0	176600	460803	1
D	460025			BLIP REGISTER #2	- 1		τi		R		33	- 1	ı	ŏ	177000	460025	- 1
R	460026			SCHEM BLIP REGISTER	_	ũ	ΤĪ		R		33	-+	一十	0	176900	460803	$\dashv$
R	460026			SCHEM BLIP REGISTER		ŭΙ	ΤĪ	MA	R		33	- [	i	ő	177300	460023	- 1
F	460027		-	PCB BUCKING PWR SUP		ūΙ	ΤĪ	MA	R		33	_	$\dashv$	0	181300	460025	$\dashv$
0	460028		_	BUCKING POWER SUPPLY	- 1	ũΙ	τī	MA	R		33	i		١	181200	460028	- 1
R	460029			SCHEM POWER SUPPLY	_	ūΤ	ΤI	MA	R		33	-+		0	181400	460804	
F	460036			PCB LO SPEED COUNTER	- 1	úΙ	TI	MA	R		33	- 1	Į	ŏ	173600	460028	
D	460037			LOW SPEED COUNTER	T	U	ΤI	MA	R		33	-t	$\neg$	0	172900	460806	1
2	460046		_	MONOSTABLE FLIP FLOP		υĺ	T I	MA	R		33	- 1		ŏ	178500	460049	- 1
F	460048			PCB MASTER COUNTER	7	υĪ	ΤΙ	MA	R		33		-+	0	178600	460049	
D	460049			COUNTER MASTER		υÌ	II.	MA	R		33	- 1		ă	178300	460802	
R	460061			SCHEM MA CTREXFR REG		υŢ	ΤΙ	MA	R		33			0	178700	460049	$\dashv$
R	460061		4	SCHEM MA CTREXFR REG		ųΙ	TI.		R	(3	33			o l	179100	460899	- 1
	460062			SCHEM DECKS AGB CGD	į.	U į	T I	MA	R	1	33			ō i	175600	4577631	
R	460062		-1	SCHEM DECKS A&B C&D					R	:	33			0	176100	457769	- 1
B	460069	İ	- [!	HEAT SINK PWR SUPPLY	- 10				R	3	33	-		0	181500	460804	
딁	460072		-4!	PCB PN GENERATOR	-+			MA	R	3	33	_ 1		o l	180400	460073	- [
R I	460073			N GEN/FREGEMOD CKTY	- 1				R		33	T	T	0	179700	460801	-1
F	460074			CHEM PN GENERATOR	_				R		33			0	180500	460073	- 1
5				CB POWER SUPPLY	- [				R	3	33	T		0	181700	460076	-1
F	460076	—- ļ		POWER SUPPLY	- (	-+-			R		33			0	181600	460804	- 1
5	460082			CB COMP ISOL AMPL					R		3		I	0	171400	460083	
_	OTES CHANGE TO		_15	OMPARATOR ISOL AMPL	Įι	IJ.	1	MA	3	3	13		l	0	171200	460807	- 1

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37.6	DRAWING NO.	941H NO.	# 5	TITLE	5	1173	41 +800 CD01	\$1.0		110 FOR 9 170H	PEST.	DATE BATE	DRAWING CONTROL STATUS		HEXT ASSEMBLY	_
	460084		П	SUBCHAS SINGLE CONN	Г	U	ΤI	MA	R		33		0	169400	460800	d
_	460084		┺	SUBCHAS SINGLE CONN	L	U	ΤI	MA	R		33	1 1	o	180600		
	460084		1	SUBCHAS SINGLE CONN	1	U	ΤI	MA	R		33		0	178800	460802	
Ц	460085		1_	SUBCHAS DOUBLE CONN		U	ΤI	MA	R		33		o	177400		
1	460085		IΠ	SUBCHAS DOUBLE CONN	Τ	U	ΤI	MA	R		33		0	176200	460805	
·	460085			SUBCHAS DOUBLE CONN		U	TI	MA	R		33		ŏ	173700		
П	460085		П	SUBCHAS DOUBLE CONN	1	U	TI	MA	R		33		0	171500	460807	
	460086		L.	SUBCHAS POWER SUPPLY		lυ	TI	MA	R		33		ŏ	181800		
1	460800			ANALOG-TO-DIGIT CONV	Т	U	TI	MA	R		33		0	169300	4600322	
┙	460801		1_	PN GEN FREQEMOD CKTY		U	ΤI	MA	R		33		o i		4600328	
T	460802			TRANSFER REGISTER	Г	Ü	ΤI	MA	R		33		0		4600327	
4	460803			BLIP REGISTERS	l	U	ΤI	MA			33		Ō		4600326	
1	460804			POWER SUPPLY	Ī	U	ΤI	MA	R		33		0		4600329	
1	460805			SOLID STATE DKS ABCD		U	ΤI	MA	R		33		Ö		4600325	
1	460806			SOLID STATE DKS E&F		U	ΤI	MA	R		33		Ö	171800	4600324	
	460807			AMPLIFIERS		U	ΤI	MA	R		33		ŏ		4600323	
1	460817			MARKING POWER SUPPLY		Ū.	TI	MA			33	_	0	181900	460086	
ı	460818			MARKING PN GENERATOR	1	Ιυ	TI	MA	В		33		ŏ	169500	460084	
1	460819		П	MARKING BLIP REGS	1	Ü	ŤĪ	MA			33		0	177500	460085	
j	460820		П	MARKING TRANSFER REG	1	ŭ.	TI	MA			33		ŏ	169600	460084	
T	460821			MARKING DECKS ABCD	1	Ū	TJ	MA			33	-	0	177600		
ı	460822			MARKING DECKS E&F		Ü	ΤÍ	MA	- 1		33		ŏ	177700	460085	
1	460823			MARKING AMPLIFIERS	t	Ŭ	TI	MA			33	-+	0			
١	460824			MARKING CONVERTERS	l	ŭ.	ΤÎ	MA	R		33		0	177800 169700	460082	
1	460891			PCB COMPARATOR	Η-	ŭ	TI		ĸ		33	-+	0		460084	
ı	460892		ΙI	COMPARATOR & INTEGRA		U	ΤĪ	MA	- 1		33	- 1	ŏ	170000 169800	460892	
t	460893			PCB DECODER	+-	ŭ	TI	MA			33		0	170400	460800	
Ī	460894		l	DECODER		انا	ΤI		R		33	i	0	170200		- 1
t	460895			SCHEM CONVERTER	-		ŤΙ		R		33				460800	
۱	460895			SCHEM CONVERTER		- 1	ti		R		33		0 0	170100	460892	
t	460897		$\neg$	BIPHRASE MODULATOR	Н		ŤÎ.	MA	R		33	- $+$ $+$	0	170500	460894	
ı	460898			PCB TRANSFER REGIS			TI		R		33	1 1	0	180700	460801	
t	460899			TRANSFER REGISTER	H		ΤÍ		R		33	$\rightarrow$		179200	460899	
1	461701	- 1		WIRING LIST BLIP REG		- 1	ΙŢ	MA			33		0	178900	460802	
t	461702			WIRING LIST CONVERT	-		TI		<del>?</del> †		33	- i -	<u>Q</u> 1	177900	460803	4
١	461703			WIRING LIST PN GEN			TI		R			1 1	0	170600	460800	
t	461704			WIRING LIST TRAN REG	H		TI		R		33	— <del>}</del>	0	180800	460801	
1	461705			WIRING LIST PWR SUP		- 1					33		0	179300	460802	
+	461706			WIRING LIST DKS ABCD			ŢĬ	MA			33	i	. 0	182000	460804	
	461707					- 1	I :		R		33		0	176300	460805	ı
L	OTES CHANGE TO			WIRING LIST DKS E&F		U	T!	MA	R		33 L	!	_ 0	173800	_46080£	۱

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7	DRAWING NO.	9A1H	11	TITLE	1	1	16×008	11121	1416 PCP 108 1164 1440 148	*ES+.	PECTASI PETE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ì
1	461708		+	WIRING LIST AMPLS	_ -	Ü	ŤΙ	MA F		33		0	171600	460807	ĺ
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1		AEN NG.	4 =	TITLE	4	15	TENBOI CODE		P1/04		110p	1476	DRAWING CONTROL STATUS		MERT ASSEMBLY	
4	1912014			CONTAINER REINF	+	1	ESB	MA	R		34		3		2012014	
	1912014			CONTAINER REINF	*	Ĭŭ		МΑ	R		34		_ 0		2012015	
	2001067			BOX INTERIOR	*	U	ESB	MA	R		34	1 1	0		2001069	
	2001068		1 1	BOX EXTERIOR	*	ΙŪ	ESB	MA	R		34		_0		2001069	
	2001069		4	PACKAGING BATTERY	1	Ū	ESB	MA	R		34	1 1	0		2011000	
	2011000			BATTERY ASSY	*	Ιù	ESB	MA	R		34		Ü		4400200	
	2012001			POS & NEG ASSY	*	tΰ	ESB	MA	R		34		0	143022	2012014	٠
	2012001			POS & NEG ASSY	*	ΙŪ	ESB	MA	R		34	ii	0		2012015	
	2012001			POSITIVE PLATE	*	ΙŪ	ESB	MA	R		34		O		2012001	
				POSITIVE PLATE	*	Ιù	ESB	MA	R		34		0		2012001	
	2012002			NEGATIVE ASSY	*	Ιŭ	+		R		34		0		2012001	
				NEGATIVE ASSY	*		ESB		R	ļ	34		0		2012001	
	2012003			GRID ASSY NEGATIVE	*	<del>-</del>					3.4		0		2012003	
	2012004			GRID ASSY NEGATIVE	*	1 -	I				34		0		2012003	
	2012004			SEPARATOR POSITIVE	*	- LU					34		0		2012001	
	2012005		1,	SEPARATOR POSITIVE		1-	_				34		0		2012001	
	2012005		12	RETAINER	*	10	ESB				34		C		2012003	
	2012006			RETAINER	*	1 ~	ESB	MA			34		O		2012003	
	2012006		14	CONTAINERS	*	ŭ		MA			134		0		2012015	
	2012007		1			1 -	ESB	MA	R	ļ	34	1 .	G	143034	2012014	4
_	2012007		+.	CONTAINERS WIRING DIAGRAM	-   *	+×	-	MA	_	1	34	1 7	0		2011000	
-	2012008		A			1 ~				1	34		. 0	143064	2012015	5
	2012009		IA.	HEAT TRANSFER	+	-+~				1	34		0	143036	2012014	4
	2012009		A	HEAT TRANSFER	,	١.		MA		1	134		C	143066	2012015	5
	2012010			POTTING CHANNEL	*			+	<u>`</u>	<del> </del>	134	1	0	143038	2012014	۷
	2012010		i.	POTTING CHANNEL	J,						34	1 1	0	143068	2012015	5
	2012011		4	POTTING CHANNEL	- 1		-			†	134	1 1	J	143040	2012014	4
3	2012011			POTTING CHANNEL	,	1.				1	134		· 0	143070	2012015	5
3	2012012		<b>_</b>	5 CELL COVER		÷					34		0	143042	2012014	4
3	2012012		-	5 CELL COVER	- 1					1	134		0	143072	2012015	5
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ò	2012013			4 CELL COVER	- 1	*					34	1 1	5		201100	
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F	AWING	LI	s t	MARINER F	₹ 6	52	NUME	ERICAL BY	DIV			PAGE	37	4-12-6
-	DRAWING NO.	BASH BO.	¥ :	TITLE	ź	3	YEMBOR	BELEASE FOR MAJOR ITEM	atsp.		EAE4	DRAWING CONTROL STATUS		HEXT ASSEMBLY
			-		Ė	١		\$2 MAL 7 MBU S	-	MD.	78:	PLYLAR		
	90119	-	$\vdash$	INSERT HELI COIL	┝	U	JPL	MA R	34	06	62	J	050500	4200849
	104208		A	SERVO ACTUATOR SCHEM		U	JPL	MR62	34	09	60	J		
i	106101		Đ	AUTOPILOT SCHEMATIC	*	U	JPL	MR62	34	-	62	J		106100
	106105		Α	SUBCHASSIS AUTOPILOT	*	U	JPL	MR62	34	- ×	61	J		106100
	106106		A	SLEEVE INSULATOR	*	U	JPL	MR62	34		62	J.	i	4200300
	106106		Α	SLEEVE INSULATOR	*	U	JPL	MR62	34	01	62	<u>J</u>		106100
i	106107		A	WASHER INSULATOR	*	U	JPL	MR62	34	01	62	J	ĺ	4200300
	106107	<u> </u>	A	WASHER INSULATOR SPACER ANTENNA & PHP	*	U	JPL JPL	MR62	34	-	62	J		106100
į	106120		8		*	ľ	JPL	MR62	34	12	61	J		106119
-	106124			GUIDE ANTENNA & PHP CAP-SEAL ANT & PHP	*	ľů	JPL	MR62	34		62	<u></u>		106110
	106125		c	CAP-SEAL ANT & PHP		ľ	JPL	MR62	34	01	62	J		106130
	106125		В	INSULATION ANT & PHP	*	Ιŭ	JPL	MR62	34		61			106110
	106126			INSULATION ANT & PHP	ı,	lΰ	JPL	MR62	34		61	J		106130
-	106304	_	Ĭč	BATTERY SCHEMATIC	*	ŭ	JPL	MA R	34		62	J	142875	2011000
	3151095		ĺ	GEAR COMPOUND ASSY	l	Ιŭ	JPL	MA R	34	10		Ĵ		4200600
-	3151096	-	tč	GEAR SPUR ANT DRIVE	H	ŭ	JPL	MA R	34		61	J		3151095
	3151097		Ìċ	GEAR HELICAL R.H.	l	Ιŭ	JPL	MA R	34	10		٠	044300	3151095
_	3151098		ÌĚ	GEAR HELICAL ANT DR	Г	ΙŪ	JPL	MA R	34	10	61	J	044400	4200600
	3151102		Ā	POTENTIOMETER GEAR	l	ũ	JPL	MA R	34	10	61	J	044500	4200600
_	3151105		D	PINION FINAL DRIVE	*		JPL	MA R	34	12	62	j	044600	4200600
	3151106		D	WORM SHAFT ANT DRIVE	L_	U	JPL	MA R	34	10	61	J	044700	4200600
	3151107		D	WORM SHAFT ANT DRIVE	Γ	U	JPL	MA R	34	10	61	J		4200600
	3151110		C	GEAR SPUR ANT DRIVE		U		MA R	34		61	J		4200600
	3151111		T	GEAR SPUR	l	Įυ	JPL	MA R	34		61	J		4200600
	3151115			RETAINER BEARING ANT	乚	U		MA R	34		61			4200600
	3151116	i	A	RETAINER BEARING ANT	l	U		MA R	34	1	61	J		4200600
-	3151118		F	HOUSING GEAR ASSY	⊢	U	JPL	MA R	34	+	61	<u>J</u>		4100384
	3151119		C	SHAFT WORM GEAR ANT	l	U	1	MA R	34	10	61	J	045300	4200600
_	3151122		C	GEAR SPUR ANT DRIVE	├-	U		MA R	34	10	61	<del></del>		4200600
	3151125		В	SPACER ANTENNA DRIVE	ı	Ľ	JPL	MA R	34	10	61	J		4200600
_	3151126	ļ	A	BUSHING ANT DRIVE	1	U		MA R	34	08	62	<del></del>		4200600
	3151138		D	DRIVE ANTENNA SCHEM		U		MA R	34	12	62	J		4200600
	3151749		C B	PLATE GEAR ANTENNA GEAR ANTI-BACKLASH	1	H	7	MA R	34	10	61			4200600
	3151751		18	SERVO MTR GEAR TRAIN		lu	1	MA R	34	12	62	J		4200600
	3152416	-	+	HOUSING SUN SENSOR	*	+-	-	MA R	34	12	62	J		3172584
1	3152417	ŀ	۱^	COVER	1 "	Ιŭ		MA R	34		60	Ĵ		4200673

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D R	AWING	L1	s t	MARINER F										PAGE	38	4-12-6	3
:	PRAWING NO.	BAEN BO.	4 5	TITLE	ŧ	ā	VI * P4 4			10 FOR	PCSP.		TASE TE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
ਲਾ	3152417		$\vdash$	COVER	*	U	JPL	MA	R		34		60	J	008200	3172584	T
сl	3152423		В	TB SECOND SON SENSOR	*	lυ	JPL	MA	R		34	12	62	J	003100	4200673	l
c	3152423		В	TB SECOND SUN SENSOR	*	U	JPL	MA	R		34	12	62	J	008900	3172584	
вΙ	3152424	i	В	MASK SUN SENSOR 15	*	lυ	JPL	MA	R		34	12	62	J	008400	3172586	
8	3152424		В	MASK SUN SENSOR	*	ΙŪ	JPL	MA	R		34	12	62	J	003220	3172586	T
вΙ	3152425		В	MASK FLAT SUN SENSOR	*	Ιù	JPL	MA	R		34	12	62	j .	003240	3172588	
БÌ	3152426		A	HOUSING SUN SENSOR	*	U	JPL	MA	R		34	12	62	J	003200	4200673	T
вί	3152485		В	MASK SUN SENSOR 40	*	lυ	JPL	MA	R		34	12	62	J	008600	3172587	1
в	3152485		В	MASK SUN SENSOR 40	*	U	JPL	MA	R		34	12	62		008800	3172589	T
вΙ	3152485		В	MASK SUN SENSOR 40	×	lυ	JPL	MA	R		34	12	62	J	003260	3172590	1
8	3152543	· · · · ·	tc	TRANSFORMER	T	Ū	JPL	MA	R		34	10	61	J	187200	4400053	T
вΙ	3152616		lol	TM1 TRANSFLUXOR		lυ	JPL	MA	R		34	09	62	J	102210	4200538	١
В	3152616		10	TM1 TRANSFLUXOR	_	Ū	JPL.	MA	R		34	09	62	J	103110	4200573	Ť
- 1	3152616		lō:	TM1 TRANSFLUXOR		Ιū	JPL	MA	R	1	34	09	62	J	103210	4200573	١
1	3152617		15	TM2 TRANSFLUXOR	┢	ΙŬ	JPL	MA	R		34	09	62	<del>- j</del>	102215	4200538	†
_	3152617		l <sub>D</sub>	TM2 TRANSFLUXOR		Ιŭ	JPL	MA		ĺ	34		62	Ĵ		4200573	
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	3158594		+-		<del> </del> −	li	JPL	MA		-	34	0.9	62	J		4200501	
	3158596			HOLDER MAGNETIC CORE		-	1						1	J			ı
	3158596		15.	HOLDER MAGNETIC CORE	⊢	U	JPL	MA	R		34	09	62			4200502	_
_	3158596			HOLDER MAGNETIC CORE	i	U	JPL	MA			34		62	J		4200512	
_	3158596			HOLDER MAGNETIC CORE	ļ.,	U	JPL	MA			34	09	62	J		4200522	
	3158596		C	HOLDER MAGNETIC CORE	1	U	JPL	MA			34	09	62	J		4200538	
	3158918	L .	Α	BRACKET CRYS MOUNT	<u></u>	U	JPL	MA	R		34	08	62			4200511	
	3158919		C	CRYSTAL	*	U	JPL	MA			34		62	J		4200511	
c	3158929		L	STRAP RELAY CC&S		U	JPL	MA			34		61	<u> </u>		4200573	
В	3158938		A	STRAP RELAY	ŀ	U	JPL	MA			34	08	62	J		4200523	
۲	3158989		Α	STRAP RELAY	L	U	JPL	MA	R		34			<u></u> _J		4200503	
7	3172585		В	SENSOR SUN	*	U	JPL	MA	R		34	12	62	J		4100525	
в	3172586		В	CELL B E HEK CELLS	*	U	JPL	MA	R		34	12	62	<u> </u>		4200673	
В	3172586		В	CELL B E H&K CELLS	*	U	JPL	MA	R		34	12	62	J		3172584	
в	3172587		В	CELL I CELL ASSEMBLY	*	ĺυ	JPL	MA	R		34	12	62	J	008500	3172584	
B	3172588		В	CELL-FLAT D CELL	*	Ū	JPL	MA	R		34	12	62	J	003230	4200673	
_	3172589		В	CELL J CELL ASSEMBLY	*	Ū	JPL	MA	R		34	12	62	J	008700	3172584	
-	3172590		B	CELL C CELL ASSEMBLY	*	U	JPL	MA	R		34	12	62	J	003250	4200673	
- 1	4100444		1	TUBE PIVOT ARM SUPP	1	Ŭ		MA			34	05	: - 1	Ĵ	032400	4100443	,
-	4100502		+	STRUT MCPU	†	ŭ	JPL	MA			34	-	62	<del></del>	014900	+	_
-	4100502		1	JOINT MCPU	1	10	JPL	MA		1	34	05		.i	015000		
_			+	FOOT MCPU	+	u	JPL	MA			34	05	_	J	015100	4100501	_
-	4100504		_		*	10	JPL	MA	R		34	09		ĭ	040300	4200002	
D	4200003		В	LY V		ıU	176	ЦПΑ			124	147	102		040200	JPL 0513 JUN	

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ä	DRAWING NO.	mo.	1	TITLE	9	3	6054	BEPIAL	1 HEU 514.	DIV.	¥0.	7.	CONTROL STATUS		ASSEMBLY	ŧ
C	4200004		Α	SHIELD LIGHT # 1	*	Ü	JPL	MA R		34	10	62	J	040400	4200002	Г
C	4200005		Α	SHIELD LIGHT # 2	*	U	JPL	MA R		34	10	62	.J		4200002	
D	4200006		В	TB ASSY		U	JPL	MA R		34	60	62	J	040600	4200002	1
D	4200006		В	TB ASSY	_	U	JPL	MA R		34	0.7	62	ك ا	046700	4200666	1
D	4200025		8	SCHEMATIC		U	JPL	MA R		34	8.0	62	J	083400	4200033	I
Α	4200028		Α	VALVE STEM	¥	Ų	JPL	MA R		34	11	61	j.	011020	3151960	
j	4200034		В	СВ		U	JPL	MA R		34	08	62	, i	083700	4200033	T
D	4200035		A	ART WORK CB1		υ	JPL	MA R		34	98	62	J	083900	4200034	
Ď	4200036		Α	CB		U	JPL.	MA R		34	0.9	62	j	084000	4200033	П
D	4200037			ART WORK CB2		U	JPL	MA R		34	09	61	J	083600	4200025	1
J	4200038		В	SUBCHASSIS		U	JPL	MA R		34	08	61	J	084100	4200033	Г
O	4200042			PLATE RETAINER		υ	JPL	MA R		34	06	61	J.	040700	4200002	
D	4200044		Α	SHELL NITROGEN TANK	*	U	JPL	MA R		34	11	62	J	041010	4200588	Т
D	4200045		D	SCHEMATIC DIA		U	JPL	MA R		34	0 H	6.;		085200	4200048	
D	4200045		D	SCHEMATIC DIA		IJ	JPL	MA R		34		61	.1	084900	4200053	T
В	4200046		В	TRANSFORMER		U	JPL	MA R		34	0.7	61	J.	085000	4200053	
D	4200048		Α	CB1		U	JPL	MA R		34	09	61	J	085100	4200053	1-
D	4200049		A	CB2		U	JPL	MA R	i	34	08	61	J	085400	4200053	
D	4200050		C	PC TB 1		Ū	JPL	MA P	1	34		62	-	085300	4200048	Ţ
J	4200051		lo.	PC TB2	١.	lυ	JPL	MA R	l	34	ΩZ	6.2		085600	4200049	_
Ď	4200052		c	SUBCHASSIS ASSY		U	JPL	MA R		34	0.5	62	J.	085800	4200053	
D	4200053		В	CELEST RELAYS 7A19		Ū	JPL	MA R	1	34	08	51		084400	4900501	
D	4200138			HOLDER ASSY MANEUVER		Ų	JPL	MA R	1	34	0.5	61	J	093200	4200521	1
C	4200168		l	RELAY STRAP		U	JPL	MA R		34	05	61	ل ا	088800	4200503	-
C	4200168			RELAY STRAP		U	JPL	MA R		34	0.5	61	J	094700	4200533	Т
в	4200263		В	XFORMER PWR CONVERTE		Ú	JPL	MA R		34	06	62	_	099900	4200563	
Ė	4200300		D	GYRO CONT SUBASY 7A2	*	U	JPL	MA R		34	0.8	62		086010	4900501	1 -
Ĵ	4200301		c	SUBCHASSIS GYRO	*	U	JPL	MA R		34	04	é2		086016	4100300	-
D	4200302		B	CAPACITOR SUBASSY 1	*	Ū	JPI.	MA R	1	34		6.7	J	086018	4200300	1
D	4200303		lc	CAPACITOR SUBASSY #2	*	U	JPL	MA R		34	10	6.2	ر	086025	4200300	
В	4200304		В	STANDOFF SPACER #1	*	Ū	JPL	MA R		34		6.2	<u> </u>	086026	4200300	1
В	4200305		В	STANDOFF SPACER #2	*	ľŭ	JPL	MA R		34	10	62		086027		ĺ
J	4200306		c	CB1 ASSY	*	ĺΰ	JPL	MA P	1	34	09	62	J	086030	4200300	1
Ā	4200306	PL	c	CB1 GYRO CONTROL	*	ΙŪ	JPL	MA R	1	134	0.9	6.2		086032		
j	4200307		Ĉ	CB1 PRINTED CIRCUITY	*	Ū	JPL	MA R		.34		62	J	056034	4200336	
j	4200308		D	CB 2 ASSY	*	ĺú	JPL	MA R	1	34	10	62	J.	086036	4200300	ļ
Ā		PL	ĪĈ	CB2 GYRO CONTROL	*	Ū	JPL	MA R	1	34	09	62		086038	4200308	1 "
j	4200309	-	Ď	CB 2 PRINTED CIRCUTY	*	Ū	JPL	MA R	1	34	10	62		086040		
Ĵ	4200310		D	CB 3 ASSY	*	Ū	JPT.	MA R	T	34	10	42		085042		
Ā	4200310	PL	D	CB3 GYRO CONTROL	*	Ιū	JUPE	MA R		34		1, 5	1	086044		
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DRAWING LIST D CB 3 PRINTED CIRCUTY # U JPL MA R
D CB4 ASSY J JPL MA R
C SCHEMATIC DIA
SWITCH AMPL SUBCHASS U JPL MA R
SWITCH AMPL SUBCHASS U JPL MA R
SWITCH AMPL SUBCHASS U JPL MA R
SWITCH AMPL SUBCHASS U JPL MA R
B CKT BD 1 ASSY SW AMP
B CB1 SW AMPLFIR LOGIC NEXT ASSEMBLY 4200311 4200310 34 10 62 086046 34 10 62 4200300 4200312 4200312 086048 4200312 34 10 62 34 01 62 086050 087000 4200352 086500 4200351 086500 4200351 086100 4900501 086600 4200351 087100 4200352 087200 4200352 087300 4200352 087400 4200354 087500 4200354 201400 4200368 201700 4200368 201700 4200368 201900 4200368 201900 4200368 201900 4200368 202000 4200394 201800 4200394 Ď 4200350 34 09 61 34 02 62 4200351 4200352 4200352 34 02 62 34 02 62 34 02 62 34 02 62 34 02 62 34 02 62 34 02 62 34 02 62 34 07 61 CB1 SW AMPLFIR LOGIC
CB1 PC SW AMPLGLOGIC U JPL MA R 4200353 D CB1 PC SW AMPLEUGGIC U JPL MA R B CKT BD SW AMPLEUGGIC U JPL MA R R B CB2 SW AMPLEUGGIC U JPL MA R R GE2 SW AMPLEUGGIC U JPL MA R R WARD WARD WAR AND WARD WAR AND WARD WAR AND WAR AND WARD WAR AND CKT BD SW AMPL 4200354 4200354 4200355 4200369 34 07 61 34 12 61 34 12 61 34 12 61 34 12 61 34 12 61 34 12 61 4200370 4200393 4200393 D 4200394 4200394 PL 202100 4200394 202300 4200368 202400 4200396 J 4200395 D 4200396 34 01 62 34 01 62 4200397 B 4200399 D 4200405 J 4200408 J 4200408 34 12 61 34 05 62 202200 4200394 4900501 34 02 63 34 02 63 34 02 63 34 02 63 047900 4200409 048300 4200412 049200 4200417 047400 4200596 J 4200408 J 4200408 J 4200409 A 4200409 PL 947400 4200596 047600 4200410 948000 4200409 047500 4200409 048100 4200409 048100 4200410 048400 4200412 048500 4200412 048500 4200412 048600 4200412 048600 4200414 968700 4200414 34 02 63 34 11 62 34 03 62 CB16CB4 SUBASSEMBLY CB4 PC PREAMP & PULS CB1 HIGH VOLT& LOW U JPL MA R
U JPL MA R
U JPL MA R
U JPL MA R C 4200410 34 01 62 34 02 63 34 03 62 4200411 A CB1 HIGH VOLTE LOW
A CB1 HIGH VOLTAGE
U JPL MA R
CB1 PC HI VOLT & LOW
U JPL MA R
CB2 ASSY PULSE DEMOD \* U JPL MA R
CB2 ASSY PULSE DEMOD U JPL MA R
CB2 ASSY PULSE DEMOD U JPL MA R
CB26CB3 SUBASSEMBLY U JPL MA R 4200412 PL 34 01 62 34 01 62 34 02 63 34 01 62 34 01 62 4200414 A CB26CB3 SUBASSEMBLY U JPL MA R
CB2 PC PULSE DEMOD U JPL MA R
A CB3 REED DRIVE ELECT \* U JPL MA R 4200415 4200416 049100 4200414 049100 4200415 JPL 0513 JUNE 61 34 02 63 4200417

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	DRAWING NO. "		<b>1</b>	TITLE	1	1	11,1001			11 FOR	915). 917.	BILEASE DATE	co	AWING NTROL	<u> </u>	NEXT ASSEMBLY	
_	•			CB3 REED DRIVE ELECT	1	Ű	JPL	MA	D D	THEN 649.	34	11 6		ATU\$	049300	4200417	7
	4200417	ļ	D	CB3 PC REED DRIVE	*	lυ	JPL	MA			34	01 6				4200417	
4	4200418	$\dashv$	В	SCHEM LAUNCH COUNTER	╁	Ü	JPL	MA			34	08 6				4200502	
	4200500			SCHEM LAUNCH COUNTER	1	Ιŭ		MA			34	08 6	- 1			4200503	
-	4200501 Pi		c	CB1 LAUNCH COUNTER	+	ŭ	JPL	MA			34	08 6				4200501	
	4200501	- 1	В	CB1 ASSY LAUNCH CNTR		ľů		MA			34	08 6	- 1			4200503	
	4200502 PL	$\dashv$		CB2 LAUNCH COUNTER	+-	lŭ		MA			34	08 6				4200502	
	4200502		В	CB2 ASSY LAUNCH CTR	ļ	ŭ	JPL	MA			34	08 6		!		4200503	
	4200503		ä	LAUNCH COUNTER 5A2	t	ŭ	JPL	ΜA			34	08 6			088300	4900501	_
	4200504		A	SUBCHASS LAUNCH COUT	İ	lŭ	JPL	MA			34	08 6	- 1		090300	4200503	į
	4200505		Ā	CB1 PC LAUNCH COUNTR	1	ΙŬ	JPL	MA	_		34	08 6			089500	4200501	
	4200506		Δ	CB2 PC LAUNCH COUNTR	1	Ιŭ	JPL	MA	R		34	08 6		ı	090200	4200502	!
-	4200510		â	CENTRAL CLOCK SCHEM	+	Ιŭ	JPL	MA	-		34	07 6			091300	4200511	Ī
	4200510		В	CENTRAL CLOCK SCHEM	ı	Ιŭ	JPL				34	07 6	- 1	ı		4200512	
-	4200510		В	CENTRAL CLOCK SCHEM	+-	Ιŭ	JPL	MA			34	08 6				4200513	
	4200511 PI	1	c	CB1 CENTRAL CLOCK	ı	Ιŭ	JPL	MA			34	08 6			091400	4200511	
	4200511	-	В	CB1 ASSY CENTRAL CLK	╁	lŭ	JPL	MA			34	08 6			090800	4200513	
	4200512 PI		D	CB2 CENTRAL CLOCK	ı	Ιŭ	JPL	MA		l	34	08 6	- 1 -			4200512	
-	4200512		В	CB2 ASSY CENT CLOCK	+	ĬŬ	JPL	MA			34	08 6				4200513	
	4200513		č	CENTRAL CLOCK 5A1	ı	Ĭŭ.	JPL	MA			34	08 6		1	090400	4900501	
	4200514		Δ	SUBCHAS CENTRAL CLCK	T	ΙŪ		MA			34	08 6		,	092300	4200513	3
	4200515		В	PC CB1 CENTRAL CLOCK	ı	Ιŭ		MA			34	08 6	2 .	J	091500	4200511	
	4200516		A	CB2 PC CENTRAL CLOCK	T	ΙŪ	JPL	MA	R		34	08 6	2 .	Ţ.	092200	4200512	2
	4200520		В	MANEUVER CLOCK SCHEM		Ιū	JPL	MA	R		34	08 6	2 .	,	093400	4200521	ļ
ī	4200520		В	MANEUVER CLOCK SCHEM	+	Ū	JPL	MA	R		34	08 6	2 .	)	094000	4200522	2
ı	4200520		В	MANEUVER CLOCK SCHEM	1	ĺυ	JPL	MA	R		34	08 6	2 .	J	092900	4200523	ŝ
	4200521 P	_	В	CB1 MANEUVER CLOCK	T	Ū	JPL	MΑ	R		34	08 6	2 .	j	093500	4200521	Ĺ
i	4200521	_	В	CB1 ASSY MANEUV CLCK	1	ΙŪ	JPL	MA	R		34	08 6	2   .	J	093000	4200523	ż
	4200522 PI		В	CB2 MANEUVER CLOCK	1	U	JPL	MA	R		34	08 6	2 .	J	094100	4200522	2
ì	4200522	-	В	CB2 ASSY MANEUV_CLCK	1	U	JPL	MA	R	!	34	08 6	2 .	J	093700	4200523	ؤ
,	4200523		8	MANEUVER CLOCK 5A4	T	U	JPL	MA	R		34	08 6	2 .	j	092400	490050-	
	4200524		A	SUBCHASS MANEUVER	1	lu	JPL	MA	Ŗ	l	34	08 6	2 .		094300	4200523	į
	4200525		A	CB1 PC MANEUVER DUR	Τ	ΙŪ	JPL	MA	R		34	08 6	2	J	093600		
	4200526		Α	PC CB2 MANEUV CLOCK		ΙŪ	JPL	MA	R	L	34	08 6	2 .	J	094200	4200522	2
	4200530	_	C	ADDRESS REG SCHEM	T	Ū	JPL	MA	R		34	08 6	2	J		4200531	
j	4200530		č	ADDRESS REG SCHEM	1	U	JPL	MA	R		34	08 6	2 .	)		4200532	
Ţ	4200530		В	ADDRESS REG SCHEM	T	U	JPL	MA	R		34	07 6	2	)		4200533	
,	4200531 P	L	В	CB1 ADDRESS REGISTER	$\perp$	Įυ	JPL	MA		L	34	08 6		J		4200531	
J	4200531	_	Ā	CB1 ASSY MANEUV OUPT		U		MA				08 6		J	-	4200533	
١	4200532 P	1	c	CB2 ADDRESS REGISTER	1	Τu	JPL	MA	R	1	134	08 6	2 .	j	095800	4200532	ż

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	DRAWING NO.	BASH 80.	1:	TITLE	1	850	46 = 00 a		1 17E#	471P.		19.	CRAWING CONTROL STATUS		HEXT ASSEMBLY	Ī
Н	4200532		A	CB2 ADDRESS REGISTER	t –	ΙŪ	JPL	MA R		34		62	J	095400	4200533	1
	4200533	l	ľĉ	ADDRESS REGIS 5A6	Į	ľ	JPL	MA R	1	34	0.8	62	J	094400	4900501	1
	4200534	<del>                                     </del>	Ā	SUBCHASSIS ADD REG	Г	Ū	JPL	MA R		34	08	62	J	096000	4200533	T
	4200535	l	Â	CB1 PC MD OUTPUT	l	Ιŭ	JPL	MA R	ł			62	Ĵ	095300	4200531	İ
┥	4200536	<del> </del>	A	CB2 PC MD OUTPUT	$\vdash$	Ū	JPL	MA R		34	0.8	62	J	095900	4200532	1
	4200537	1	Ιĉ	SUBCHASS END COUNTER		Ιŭ	JPL	MA R		34		62	Ĵ	101900	4200573	İ
	4200538	DI	<del> </del>	CB1 END COUNTER	一	Ιŭ	JPL	MA R	<del>                                     </del>	34	08	62	<del></del>	102200	4200538	1
	4200538	1 -	ľĎ	CB1 ASSY END COUNTER		Ιŭ		MA R	1	34	08	62	ا ر	102000	4200573	i
	4200539	<del>Б</del> 1	18	CB2 END COUNTER	-	łŏ	JPL	MA R	<del>                                     </del>	34	08	62	j		4200539	1
	4200539	, -	lo	CB2 ASSY END COUNTER		Ιŭ	JPL	MA R		34		62	ا ر		420057-	
-	4200540	<del> </del>	₽	MANEUVER DUR SCHEM	┼	ΙŬ	JPL	MA R	!	34		62	J	096900	4200541	_
	4200540	1	l <sub>B</sub>	MANEUVER DUR SCHEM		ŭ	JPL	MA R	1	34	-	62	Ĵ		4200542	
4	4200540		B	MANEUVER DUR SCHEM	-	ŭ	JPL	MA R	<del></del>	34		62	<del>- j</del>		4200543	•
	4200541	١,,	В	CB1 MANEUVER DURATON		ŭ		MA R				62	Ĵ		4200541	
		P L _			╌	ŭ	JPL	MA R		34		62	j		4200543	-
	4200541	١	В	CB1 ASSY MANEUV DUR	1	Ü		MA R			1	62	j		4200542	
	4200542	IPL_	В	CB2 MANEUVER DURATON	┺	1-							<del></del>	097200	4200543	
	4200542	1	В	CB2 ASSY MANEUV DUR	ļ	U	JPL	MA R		34	1 -	62	-			
	4200543	l	В	MANEUVER DURAT 5A5	L.	U	JPL	MA R			0.8		J		4900501	_
Ī	4200544	Ī	A	SUBCHASS MANEUVER	ŀ	ν	JPL	MÃR	l	34	1 -	62	J		4200543	
ĺ	4200545	<u> </u>	Α	CB1 PC MANEUV DURAT	L	ĮŲ,	JPL	MA R	ļ			62	J		4200541	
Ī	4200546	1	A	CB2 PC MANEUVER DUR	1	ļυ	JPL	MA R	1	34	1 -	62	J	097700	4200542	
	4200550	1	В	INPUT DECODER SCHEM	L	lu	JPL	MA R	<u> </u>	34	08	62	J		4200551	
	4200550		В	INPUT DECODER SCHEM		U	JPL	MA R	ł	34	08	62	J		4200552	
	4200550	1	lв	INPUT DECODER SCHEM	ı	lυ	JPL	MA R		34	08	62	J	098200	4200553	_
	4200551	PL	TB.	CB1 INPUT DECODER	Т	ΙŪ	JPL	MA R		34	08	62	J	098700	4200551	
	4200551	-	Ā	CB1 ASSY INPUT DECOD	l	lυ	JPL	MA R	1	34	08	62	J	098300	4200553	
	4200552	PL	8	CB2 INPUT DECODER	T	ΙŪ	JPL	MA R	1	34	08	62	j	099200	4200552	
	4200552	-	A	CB2 ASSY INPT DECODE	1	Ιū	JPL	MA R	1	34	0.8	62	J	098900	4200553	
	4200553	<del> </del>	tĉ	INPUT DECODER 5A7	+-	Ιŭ	JPL	MA R		134	08	62	J	097900	4900501	
	4200554	1	A	SUBCHAS INPUT DECODE		Ιŭ	JPL	MA R	!			62	J.	099400	4200553	
-			1A	CR1 PC INPUT DECODER	✝	Ιŭ	JPL	MA R		34	08	62	J	098800	4200551	
	4200555	1		CB2 PC INPUT DECODER	1	ľů	JPL	MA R	1	34	08	62	Ĭ		4200552	
_	4200556	la	B	ICB2 TRANSFORMER RECT	+-	ΗŬ		MA R	<del>                                     </del>	34	08	62	<del></del>	100100	4200557	
	4200557	( )	1-		1	1 -		MA R		34		62	J		4200563	
_	4200557	↓		CB2 XFORMER RECT	╀	U		MA R	+	34	08	62	J	103250	4200573	
	4200558	1	A	TRANSFLUXOR TM10	1	1 -	1	MA R				62	J		4200557	
	4200559	1_	A	CB2 PC XFMR RECTIF	+-	U		MA R		34		162	J	100300		
	4200560		P	XFORMER RECT SCHEM	1	U	1 -		1		1 ~ -	1	ا ا			
	4200560		D	TRANSFORMER SCHEM	┼	ļυ	+	MA R	<del> </del>	34		62		100400		
	4200561	PL	C	CB1 TRANSFORMER RECT	1	Įυ		MA R	1	34		62	J	100600		
	4200561	1	ĺВ	CB1 XFORMER RECTIFER	1	111	JJPL	MA R	I	134	108	162		100500	14200563	L

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Ē		ec.	l		5	[ 3	CODE	\$1.5		es 16v.	BIV.	∎c,	10.	STATUS	Ī	ASSEMBLY	1
J	4200562		8	CB1 PC XFMR RECTIF		U	JPL	MA	R		34	6.0	62	J	100700	4200561	7
)	4200563		D	XFORMER RECT 5AB		υ	JPL	MA	R	1	34	01	62	J	099500	4900501	-
,	4200564		В	SUBCHAS XFORMER RECT	Г	U	JPL	MA	R	-	34	08	62	J	100800	4200563	٦
,	4200565			BRACKET DIODE XMFR		lυ	JPL	MA	R		34	01	62	J	100900	4200563	
	4200566		Α	STRAP RELAY CC&S		U	JPL	MA	R		34	08	62	J		4200563	
3	4200567		1	INDUCTOR XMFR RECT	l	ĺυ	JPL	MA	R		34		62	J		4200563	
3	4200568		tΞ	INSULATION BD XMFR	Г	U	JPL	MA	R		34		62	J	101200	4200563	
3	4200569		Α	INDUCTOR BRKT XFORME		lυ	JPL	МА	R I		34		62	j		4200563	
J	4200570		D	END COUNTER SCHEM		υ	JPL	MA	R		34		62	J		4200538	
J	4200570		D	END COUNTER SCHEM		U.	JPL	MA	R		34		62	ر		4200539	
J.	4200570		Ď	END COUNTER SCHEM	T	υ	JPL	MA	R		34		52	J		4200573	
ار	4200571		В	CB1		U	JPL	MA	R	- 1	34	08	62	ل ا	102500	4200538	
J	4200572		Α	CB2 PC END COUNTER	Г	V	JPL	MA	R		34	08	62	j		4200539	
٩	4200573	PL2	c	CB1 END COUNTER	ĺ	U	JPL	MA	R		34		62	Ú		4200573	
٩	4200573	PL5	Α	CB2 END COUNTER		υ	JPL	MA	R		34	01		Ĵ		4200573	
0	4200573		c	END COUNTER 543		Ū	JPL	МА	R		34	08		Ĵ		4900501	
3	4200574		A	TRANSFLUXOR TM7		Ū	JPL	MA	R				62	<del>J</del>	103255	4200573	٠
3	4200575		8	TRANSFLUXOR TM8	ļ	ŭ	JPL		R		34		62	Ĵ		4200573	
3	4200576		A	TRANSFLUXOR TM9	1	U	JPL	MA			34	_	62	J		4200573	
ا ر	4200588		В	PIPING ATTITUDE INST		ŭ	JPL		R	-	34		62	,		4100310	
J	4200589		C	BRKT SUPPORT	*	U	JPL		R		34		62	J		4200588	
5	4200590			RING SPT BRKT NITROG	1	ŭ	JPL	MA		- 1	14		61	<u> </u>		4200589	
5	4200591	-	-	PLATE SPT BRKT NITRO	_	ŭ	JPL	MA			34		01	<u>y</u>		4200589	
0	4200592			VALVE REGULATOR ASSY	l	Ū	JPL	MA	R		34		61	Ũ		4200588	
5	4200593			BRACKET VALVE REGUL		Ū	JPL	MA	R	-	34	+	61	<u>J</u>		4200592	
2	4200594			TEE SOCKET WELD SPEC		Ū	JPL	MA	R	l	34		61	j		4200592	
	4200595		Α	BRACKET SUP YAW JETS		Ū	JPL	MA	R		34		62	J		4100303	
ا ز	4200596		c	ELECTRONIC ASSY		Ŭ	JPL	ΜА	R				62	Ĵ		4800375	
Ċ	4200597			MAGNETIC SHIELD	-	Ū	JPL	MA	R	$\neg \neg$	34		62			4200410	٠
2	4200597			MAGNETIC SHIELD		U	JPL	МА	R		34	٠,	62			4200415	
Ċ	4200598			L V TRANSFORMER MTG	-	Ū	JPL	МА	R		34		62			4200596	
٥	4200599			H.V. TRANSFORMER MTG		ŭ	JPL	МА	R	ł	34		62	J		4200596	
J	4200600		В	GEAR TRAIN ANT DRIVE	Ι-	ŭ	JPL	MA	R		34		62	J	043900	4100310	
3	4200601			GEAR SPUR MOTOR ANT	l	ŭ	JPL		R		34		61	Ĵ		4200600	
c	4200603			ELBOW SOCKET WELD		Ū	JPL	MA	R			11	01			4200588	
۲ ا	4200604			ELBOW SIDE OUTLET	ł	Ü	JPL	MA	R		34		61	Ĵ		4200588	
5	4200605		Α	MANE 3 VALVE CONT	*	Ü	JPL	MA	4		34	liot	62	<del>-</del>		4200588	
2	4200606		Α	MANIFOLD 2 VALVE DWG	*		JPL	MA	R		34		62	-		4200588	
Ž	4200607			TUBE FILL CONNECTION		Ų	JPL	MA	R	:	34		61	·		4200592	-
-	4200608		Α	TUBE TRANSDUCER CONN		ŭ	JPL	MA	is.		34		61			4200592	

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2	DRAWING NO.	945H	2 4	7171.5	4	545	*****	96.64 91/01	51 fr. e	PE 5 P.	PERMIT	CTAWING	1	NEXT	_
•	1	No.	\$ 2		5	1 3	CCCI	BURIAL	THRU 119.	817	WF. 10	STATUS		ASSEMBLY	1
	4200610		Γ	TEE SOCKET WELD	Ι	Įΰ	JPL	MA R		34		J	041900	4200592	ī
	4200611		L.	SLEEE SOCKET WELD		U	JPL	MA R		34	11 6		042600	4200588	
	4200612		1	SLEEVE SOCKET WELD		IJ	JPL	MA R		34	11 6:	. J	042000	4200592	Ī
	4200613			ELBOW SOCKET WELD HP	_	U	JPL	MA R		34	11 61	J	042700	4200588	
	4200614		i	SPIDER ASSY BRAZEMT	1	U	JPL	MA R		34	11 6	J	042800	4200588	1
	4200615			FLANGE 3 BOLT	Ì	Ų	JPL	MA R		34	11 6		042900	4200588	
	4200616		Г	MANIFOLD VALVE		Ų	JPL	MA R		34	11 6	J	042100	4200592	Ĭ
	4200620		L.	HOSE METAL FLEX ASSY	_	Ų	JPL	MA R		34	11 6:	J	043000	420059P	1
	4200624		В	NOZZLE JET	*	U	JPL	MA R		34	11 62	J	043100	4200588	1
_	4200625			SPACE THERMAL	<u></u>	Ų	JPL	MA R		34	11 6:	J. J	043200	4200588	
	4200629		İ	SLEEVE SOCKET WELD		U	JPL	MA R		34	11 61	J	043300	4200588	1
	4200630		А		*	U	JPL	MA R		34	11 62		043400	4200588	
	4200631			SHIELD REG L WR WELD		U	JPL	MA R		34	01 [62	J	043800	4200588	
	4200633			FRAME SHIELD REGULAT	L	U	JPL	MA R		34	01 62	J	043500	4200630	
	4200634		А	COVER FR SHIELD REG	Γ	J	JPL	MA R		34	04 62	J	043600	4200630	1
	4200635		Α	COVER TOP SHIELD REG	*	U	JPL	MA R		34	11 62		043700	4200630	
	4200638		T	TB SW AMPLFIER LOGIC		TU	JPL	MAR		34	02 62	J	087700	4200639	Ī
	4200638		L.	TB SW AMPLETER LOGIC	l	U	JPL	MA R		34	02 62	·	037900	4200640	
	4200638		Γ	TB SW AMPLFIER LOGIC		U	JPL	MA R		34	02 62	J	088100	4200641	
	4200639		L.	CKT BD 3 ASSY SW AMP	1	Ų	JPL	MAR		34	02 62	J	087600	4200351	ľ
	4200640			CB4SW AMPLFIER LOGIC		U	JPL	MA R		34	02 (62	J	087800	4200351	
	4200641			CKT BD 5_SW AMPL	ļ	U	JPL	MA R		34	02 62	:		4200351	
	4200647		Г	CLUTCH SLIP ANT DRVE		U	JPL	MA R	- 1.2	34	02 62			4200600	Ī
	4200666		Α	SENSOR ASSY PRIMARY		U.	JPL	MA R		34	07 62			4100310	
	4200668		Д	SEC SUN SENSOR	1	Ū	JPL	MA R		34	05 62			4100306	
	4200669		Α	BRACKET SEC SUN SENS	١	U	JPL	MA R		34	05 62	ز ا		4200668	
	4200670		Γ	MASK	Г	U	JPL	MA R		34	05 02			4200671	
	4200671		Α	CELL ASSEMBLY E E	*	U	JPL	MA R		34	14 66	i J	002000	4200668	
	4200672		A	TB SECONDARY SUN SEN		U	JPL	MA R		34	05 62		002200	4200668	1
	4200673		Α	SUN SENSOR ASSEMBLY	*	U	JPL	MA R		34	12 62	J		4100306	
	4200822		Α	HOUSING PHOTOMULTPLR	*	U	JPL	MA R		34	02 63	J		4800369	
	4200823			STEM RESISTOR BLOCK		U	JPL.	MA R	_	34	06   62	. <u> </u>		4200826	
	4200824		Ā	UPPER TERMINAL PLATE	*	U	JPL	MA R		34	Q2 [63		052200	4200826	
	4200825		A	LOWER TERMINAL PLATE	*	Ų,	JPL	MA R		34	02 163			4200826	
Ī	4200826		D	PHOTOMULT TUBE ASSY	*	U	JPL	MA R			102 63			4200822	
	4200827		A	COIL ASSEMBLY	*	U.	JPL	MA R		34	02 63	J	053200	4800369	
_	4200828		Ă	MAGNET ASSEMBLY	*	ίŪ	JPL	MAR		34	02 6:	] 'J "" .	053400	4800369	
	4200829		Д	BASE COIL	*	U	JPL	MA R		34	Ç / 6	ر 1.		4200827	
_	4200830		1	SCREW RAIL	T	ίŪ	JPL	MA R			166 6		053500	4800369	
	4200831		1	RAIL	t	Ĭ.	JPL	MA R			100 62		053700	4800369	

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R A	WING	LI	S 1	MARINER F	2	62	NUM	ERI	CAL	BY E	V 1 C			PAGE	45	4-12-6
101	AWING NO.	8100	4 :	TITLE	á	3	CORE TENDOS	F	MAJO:	7 / HE   TER	BEEP.	#11 L	T.E.	DRAWING CONTROL STATUS		MEXT ASSEMBLY
	200832		T	HOUSING LENS	Г	Ū	JPL	MA		1114	34	06		J	050900	4200848
	200833	_	┖	SHADE LIGHT		U	JPL	MA	R		34	06	62	J	051000	4200848
	200834		i	BRACKET TRANSDUCER		U	JPL	MA	R		34	06	62	J		4800369
	200836		L	BRACKET CONNECTOR		Ų	JPL	MA	R		34	06	62	J		4200596
_	200837			BRACKET BOARD ATTACH		U	JPL	MA	R		34	06	62	J		4200596
	200838		L.	REED CHOPPER DRIVE		U	JPL	MA	R		34	06	62	J	053900	4800369
	200839		l	NUTPLATE CONNECTOR	Ţ	U	JPL	MA	R		34	06	62	J		4200596
	200840		L	SPACER LENS		U	JPL	MA	R		34	06	62	J		4800370
	00841		l	FRAME CHOPPERGCOIL		U	JPL	MA	R		34	06	62	J	054000	4800369
	00842		В	CHOPPER	*	ļu.	JPL	MA	R		34	0.2	63	J	054100	4800369
	200843		l	MOUNT REEDS		U	JPL.	MA			34	06	62	J	054200	4800369
	200844		١	BEARING PLATE REEDS	L	U	JPL	MA	R		34	06	62	J	054300	4800369
	200845			PICKOFF		U	JPL	MA			34	06	62	J	054600	4200852
	00846		Α.	COVER BRAZEMENT	L.	Ų.	JPL	MA			34	68	62	J	050200	4200596
	00847		ı	HOUSING CHOPPER DRVE	ĺ	U	JPL	MA				06	62	J	054400	4800369
	00848		L	LENS ASSY	L	U	JPL		R		34	06	62	J	050800	4800370
	00849		. 1	STANDOFF BOARD MOUNT	l	ĮΨ,	JPL	MA		ł		06		J	050400	4200596
	00850		A	HOUSING PHOTOMULTPLR	*	Ų.	JPL	MA			34	02	63	J	052400	4200822
	00852		П	METRISITE REWORK		U	JPL	MA			34	06	62	J	054500	4800369
	00853		-	NUTPLATE LENS	ļ	U.	JPL	MA			34	06	62	. J	051100	4800370
1 -	00855			WINDOW PHOTOMULTIPLR		ļυ	JPL	MA		1	34	06	62	J	052500	4200822
	00856		-	INSULATING CUP		Ų	JPL	MA	$\rightarrow$		34	06	62	J	052600	4200822
	00857			WASHER PHOTOMULTIPLR		U	JPL	MA				06	62	J	052700	4200822
	00858			SHIELD	$oxed{}$	U	JPL	MA			34	06	62	J	052800	4800822
	00859			INSULATOR PHOTOMULT		Ų	JPL	MA		1	34	06	62	J	052900	4200822
	00860			CAP PHOTOMULTIPLIER		Ų	JPL	MA			34	06	62	بر	053000	4200822
	00861	i		MOUNT MAGNET		U	JPL	MA				06	62	J	054700	4800369
	00862		-	SPEC SHIELD INSTL	_	V	JPL	MA	R		$\overline{}$	_	62	J	053100	4200822
	00863			LOCATOR BASE		V	JPL	MA	R			06 !		J	051200	4800370
	00864		-	ADJUSTING SCREW	_	V	JPL	MA	R				62	J	054800	4800369
					*	, - I	JPL	MA				06 Í	62	J	i	
	00866		$\rightarrow$	OUTLINE		V.	JPL	MA	R			06.	62	J		4800370
	00868			LENS COVER		U	JPL	MA	R			06		J	051500	
			-	CASE LONG RANGE		V.	JPL	MA				06		J	051600	4800370
	00873		.	STRAP RAIL		U	JPL	MA					62	J	054900	
	01036		Α	GYRO CONTROL SCHEM	*	U	JPL	MA					62	J	086053	
1 -	01037			CB4 PRINTED CIRCUITY	*	U	JPL	MΑ	R			09		J		4200312
	01038			4 1 2 2 2 1 1 2 2 1	_	U	JPL	MA	R				62	J	086054	
	01038						JPL	MA	R				62	J	086020	
	S CHANGE TO		_		*	U	JPL	MA	R		34	09	62	J	086024	4200303

NOTES CHANGE TO PREVIOUS LIST		

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) F	AWING	L1	5 T	MARINED			NUM							PAGE	46	4-12-6	3
ï	DRAWING NO.	B15H 80.	3 5	TITLE	1	3	TE # 601	<u> </u>	M F104	40 704 1718 THED 649.	BISP.		1 43 E 47 E 7 E	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
В	4201039			SLEEVE INSULATOR	*	U	JPL	MA	R		34	09	62	J	086056	4200300	t
6	4201040			WASHER INSULATOR	*	U	JPL	MA	R		34	09	62	j.		4200300	
В	4201041	l	В	SLEEVE INSULATOR	*	Ū	JPL	MA	R		34		62			4100300	
В	4201042	l	A	WASHER INSULATOR	*	lυ	JPL	MA	R		34	09	62	Ĵ		4100330	
Ď	4201043		Α	BLK DIAG DWG	*	Ú	JPL	MA	R		34		62	J		4200588	
C	4400002		F	PWR SUP 2.4KC SCHEM	*	lυ	JPL	MA	R		34		62	Ĵ		4400003	
	4400003		E	2400CPS PWR AMPL 4A9	*	U	JPL	MA	R		34	03	62	J		4400204	t
	4400004		D	SUBCHASSIS PWR SUP	*	U	JPL	MA	R		34	03	62	J		4400003	1
	4400005			POWER XFMR T-1	*	U	JPL	MA	R		34	04	61			4400003	t
٥	4400007			BOOSTER REGULAT SCHM	I	Ų	JPL	MA	R		34	01	62	J	134300	4400011	ı
	4400007		H	SCHEMATIC DIAG	Γ	U	JPL	MA	R		34	01	62	J		4400013	t
ς_	4400007			SCHEMATIC DIAGRAM	Ι.	Ų	JPL	MA	R		34	01	62	J	135300	4400086	ſ
	4400010			POWER XMFR T3	Г	U	JPL	MA	R		34	10	61	J		4400011	t
	4400011			BOOSTER REGULATOR		U	JPL	MA	R		34	12	61	J	133700	4900501	l
	4400012			CHASS BOOSTER REG	*	Ų,	JPL	MÄ	R		34	09	62	J	134600	4400011	t
	4400013		Α	CAPACITOR SUBASSY		U.	JPL	MA	R		34	07	61	J		4400011	۱
	4400015		В	COVER		U	JPL	MA	Ŕ		34	06	61	J		4400011	t
	4400016		Ε	SUBCHASS BATT CHARGE	li	U.	JPL	MA	R	- [	34		61	j		4400042	۱
	4400022		A	XMFR T3 POWER SUPPLY		5	JPL	MA	R		34		61	J	136400	4400018	t
2	4400023		8	CHOKE L1 POWER SUPLY		υl	JPL	MA	R	1	34		61	Ĭ.		4400018	l
Y	4400032		F	SUBCHASSIS PWR SYNC	Г	υ	JPL	MA	R		34		62	J		4400031	t
١	4400033			CB1 POWER SYNCHRON		lυl	JPL	MA	R	ļ	34	04	61	ار		4400031	ł
1	4400033	PL		CB1 POWER SYNCHRON		U	JPL	MA	R		_	_	61	-J		4400033	t
)	4400034		Α	CB2 POWER SYNCHRON		ū		MA					61	ا د		4400031	Į
Ā	4400034	PL	8	CB2 POWER SYNCHRON		Ü	JPL	MA	R			07		<u></u>		4400034	t
ا ز	4400035		F	POWER SYNCHRON SCHEM		υl	JPL	MA	RΙ	- 1	34					4400031	l
į į	4400035		F	POWER SYNCHRON SCHEM		Ū	JPL	MA	R			03		<del>- j</del>		4400033	t
ا ر	4400035		F	POWER SYNCHRON SCHEM		υl	JPL	MA	R	- 1			62	Ū.		4400034	l
,	4400035		F	POWER SYNCHRON SCHEM		U	JPL	MA	R			03		- L	140900	4400083	t
:	4400037			PC TB2 POWER SYNCHR	lÌ	ŭΙ	JPL	MA	RΙ	1		04		- i - l		4400034	ı
	4400038			XFMR DRIVER PWR SYNC		U			R			06		3		4400031	t
-	4400039			SATURABLE XFMR		υl	JPL	MA	R			٠. :	61	ا ن		4400031	
П	4400040		u	SCHEMATIC DIAG	П	üΙ	JPL	MA	R		_	06		J		4400046	t
П	4400040		D	SCHEMATIC DIAG		ŭΙ			R				61	J		4400043	l
7	4400040		D	SCHEMATIC DIAG	$\neg$	Ū			R				61	J		4400055	
۱ ۱	4400040			SCHEMATIC DIAG		ŭΙ			R			- :	61	J		4400063	ł
51	4400042			BATTERY CHARGER 4A7	$\neg$	ŭΤ			R	$\rightarrow$			61	j		4900501	÷
۱,	4400043			CB1 BATTERY CHARGER	- 1	ŭΙ			R			1	61	, I		4400042	Ė
	4400043	PL		CB1 BATTERY CHARGER	┪	ŭ			R			03		J I		4400042	Н
	4400044	-		SCHEMATIC DIAG		u			<u>``</u>				62	٦ ١		4400043	ı
_	OTES CHANGE TO	PREVIO				<u> </u>		1			24	ندي	02	<del></del>	142700	JPL 0513 JUNE	_

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400044 400045		-		6	2	NUME	RIC	ΑL	BY D	I V			PAGE	4.7	4-12-63	, 1
400044 400044 400045	911H 80.	15		_												_
400044			TITLE	Ç#	ij	VC#808		LIASE LAIGE I		BIV.	#1.1 LA		DRAWING CONTROL STATUS		HEXT ASSEMBLY	G. 18
400044		G	SCHEMATIC DIAG	_	υ	JPL	MA	R		34	03	62	J	142500	4400043	
400045			SCHEMATIC DIAG		ΙυΙ	JPL	MA	R		34	03	62	ل	187300	4400053	
			PC TB1 BATT CHARGER		Ü	JPL	MA	R		34	09	61	J	142600	4400043	]
		ĸ	4A1 PWR SWELOGIC	*	ΙυΙ	JPL	MA	R	1	34	10	62	J	185500	4800296	Ш
400047		Ĥ	SUBCHASS ASSY PW SW	*	U	JPL	MA	R		34	99	62	J	186100	4400046	
400048		в	TRANSFORMER ASSY PWR		υl	JPL	MA	R		34	10	61	J	186200	4400046	
400051		ō	COVER ASSY		U	JPL	МΑ	R		34	0.2	62	J	186700	4400046	
400052			TRANSFORMER		Ú	JPL	МА	R	l	34	10	61	j	187400	4400053	Ш
400053		9	TELEMETERING OSC ASY		U	JPL	MA	R		34	10	61	j	186800	4400046	
400054		A	SUPPORT TEL OSC PWR		ΙŭΙ	JPL	MA	R	!	3:4	10	61		187500	4400053	
400055		c	CB1		U	JPL	MA	R		34	91	62	J	187600	4400053	
400055	Pi		CBI		انا	JPL		R			01	62		187900	4400055	1_
400056		Ā	PC TB1		Ü	JPL	MA	R		34	0.7	61	J	188000	4400055	ĺ
400059	1	В	CB3		انا	JPL	MA	R	1	34	07	61	ا پا	188300	4400046	1
400077	D:	Ā	CB 2 PWR SUPPLY		U	JPL	M.A	R		34	53	61	J	137700	4400077	
400081	, -	là.	AMPLIFIER MAG ASSY	ı	ΙŭΙ	JPL	MA	Q.		34	10	61	ا ر	188100	4400053	1_
400083	<del>                                     </del>	<del></del> -	CAPACITOR ASSY	_	Ū	JPL	MA	R		34	07	61	J	140700	4400031	Т
400086			CAPACITOR ASSEMBLY		ΙūΙ	JPL	МА	R		34	0.7	61		135200	4400011	<u>l</u> .
+400087		A	CB4		Ū	JPL	MA	R		3-	09	61	7	141900	4400016	
	i				L)	JPL	MA	R	- 1	34	12	61	ا ــــــــنــــــ	135400	4400011	┖
	ρí				Ū	UPL	MA	R		34	10	62	ر	135700	4400089	ļ
	_	`		1	ū	JPL	MA	R		34	10	61	[ ز	188200	4400053	丄
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Ī	DRAWING NO.	BARD BO.	11	TITLE	1	į	*****		WAJER	IE FDE 1780 THEO \$11.	4112. PIV.		71	DRAWING CONTROL STATUS		HEXT HEXT
+	4900254		+-	GROUND WIRE ASSEMBLY	$\vdash$	lυ	JPL	MA			34	01			028200	4100324
	4900502		В	CHASS ATTITUDE CONT		Ιŭ	JPL	MA			34	01	62	Ĵ	200400	4900501
	4900506		Ĭ	SHIELD CHASSIS		Ü	JPL	MA			34	10	61	Ĵ		4900502
١	L213		'	RAIL	1	Ш	NOR	MA	R		34			0	037300	4800349
-	106100	Б.	ta i	AUTOPILOT ELECTRONIC	+-	ΙŬ	NOR				34	05	62	J	131400	106100
	106100			AUTOPILOT ACTUATOR		Ιŭ		MA			34	05		Ĵ	131100	4300204
Η	106101		늉	AUTOPILOT ELECTRONIC	T	Ιŭ		MA			34		62	J	131500	106100
	106102			TH AUTOPLT ACTR ELEC	1	Ιŭ		MA	R		34	02	62	Ĵ	131600	106100
Н	106103		۳-	ART WORK	✝	ΙŪ	NOR	MA			34	02		<del></del>	131700	106102
1	106104	ļ		ART WORK	ı	Ιũ	NOR	MA	R		34	02	62	J	131800	106102
Н	106105		A	SUBCHASS AUTOPILOT	+	ΙŬ	NOR	MA			34	02	62	<del>- J</del>	131900	106100
	106106	1		SLEEVE INSUL AUTOPLT	1	Ū	NOR	MA	R		34	02	62	J	131200	106100
Н	106107		+	WASHER-INSUL AUTOPLT	1	Ū	NOR	MA	R		34	02	62	J	131300	106100
	106118	ļ	lΕ	SUBCHAS ANTEPHP	1	U	NOR	MA	R		34	0.2	62	J	132200	106130
	106119	<del> </del>		SERVO ANT DRIVE ASSY	T	Ū	NOR	MA	R		34	02	62	J	132300	106130
,	106120		B	SPACER ANTEPHP SERVO	1	lυ	NOR	MA	R		34	02	62		132800	
	106121			SHIELD ANTEPHP	Т	โบ	NOR	MA	R		34	02	62	J	132400	106119
	106122			SPT ANT&PHP SERVO	1	lυ	NOR	MA	R	L	34	02	62	<u></u>	132500	106119
	106123	1		CPLG ANT&PHP SERVO	Т	Īυ	NOR	MA	R	ľ	34	02	62	J	132600	
	106124	l		GUIDE ANTEPHP SERVO	1	Ιū	NOR	MA	R	l	34	02	62	J	132700	
,	106125	<del>                                     </del>		CAP SEAL ANTEPHP	Т	Īΰ	NOR	MA	R		34	102	152	J	132900	
, !	106126	В		INS ANTEPHP ELECT	1	lυ	NOR	MA			34	0.2	62	J	133000	
,	106127	<del> </del>	TĀ	XMFR ASSY ANTEPHP	1	V	NOR				34	02	62	J	133100	
	106130	PL	lc	ANT SERVO ELECTRONCS	1	Įυ	NOR	MA	R		34	0.2	62	J	133200	
,	106130	1	Tc	ANT SERVO SUBASSY	Т	Ū	NOR	MA	R		34	02	62	J	132100	
	106131	1	lΕ	ANT SERVO SUBASSY		ΙU	NOR	MA			34		62	<u> </u>	133300	
5	106132	1	Т	TERM BD ANT SERVO	T	U	NOR	MA	R	i	34		62	J	133400	
	106133	1	1	ART WORK	1	Įυ	NOR				34	0.2	62	J	133500	
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į	DRAWING NO.	DATE EO.	1 5	1	1	3	\$000 Becop	Γ.	BELE: BAJO	100 TUBE SEC.	AESP. Drv.	20,	1478	DRAWING CONTROL STATUS		MEXT	Ī
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4	15090		<b>!</b>	LINEAR SPRING DAMPER	*	Įψ	GAI	MA	R		35		63	č	222000	4100309	ł
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4	90024			COMPOUND POTTING		υ	JPL	MA	R		35	n 9	5.7	1	100600	4900404	t
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+	90085			DIODE INSTALLATION		υ	JPL	MA	R				58	ĭ	141200	4400042	ł
	90086	- 1	ł	DIODE INSTALL		S	JPL	MA	R				58	_ <del>y</del>	133800	4400011	ł
+	90088		Α	CONNECTOR MOUNT		U	JPL	MA	R	i			58	ارت		4700311	ì
I	90089			PIN LOCATING		U		MA	R		35		58	<del></del>	084200	4200038	ł
+	90091			PIN LOCATING DIAMOND	Ш	U		MA	R		35	09	58	ا ز		4200369	l
ı	90091			RIVET INSPECTION		U			R			05	58	J	185000		ţ
+	90091			ADHESIVE ADHESIVE	-	ч		MA	R.			05	58			4100222	ı
1	90091			ADHESIVE	- 1	U :		MA	R				58	J	027800	4100331	ĺ
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ı	90091	- 1		ADHESIVE				MA				05		J	093300	4200138	
t	90091	-		ADHESIVE	_			MA	R			05		j.	086200	4200351	
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t	90091	-+		ADHESIVE		-		MA	R			15		J	104400		
ı	90091			ADHESIVE	- 1				R				58	J	103600	4200580	-
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	90091			DHESIVE					R			5		J	141300	4400042	
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	90091	- 1		DHESIVE	- 1	٠,١,٠	1					5		J	185600	4400046	
Т	90091	$\neg$		DHESIVE					R				58	J	186300	4400048	_
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4	90091		ı	ADHESIVE	Т	U	JPL	MA	R		35	0.5		J.	140800	4400083	+
ì	90091		<u> </u>	ADHESIVE	1_	U	JPL	MA	R		35	05	58	ž		4400089	
ì	90091			ADHESIVE ADHESIVE		U	JPL	MA				05	58	j		4600318	t
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	90091		l	ADHESIVE	1	U	JPL						58	J	075738	4900312	t
1	90092		Н	TERMINAL INSTL	╄-	U		MA				05		J	075758	4900314	ľ
١	90099			RESIN	ì	U	JPL		R	1			58	7		4901003	İ
7	90099			CASTING RESIN	H	U.	JPL	MA	<del>K</del>				58	J		4200053	l
١	90102			AUTOSYN CLAMP		υĺ	JPL		Ř		- 1	80	1	J		4400013	Ī
7	90116			TRANSISTOR MOUNT	Н	٥			R			06		<u> </u>		4500122	l
ı	90119			INSERT HELI-COIL	H	u	JPL		۱۵			07	1	J		4400031	Ī
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	201/2			BOOT POTTING		Ü	JPL	MA	R		35	0.7	59	J	044000	4200600	1 1
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D	90164	l	1	CUP POTTING	1	Ιŭ	JPL	MA	R		35	111	59	J		4200033	$\sqcup$
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C	90190	l				Ιŭ	IPI	MA		Ì	35	07	60	J	212900	4700306	$\perp$
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D	90267	i	_	CAP	4	1							60		205900		
C	90273			WASHER C SUNK	1	1					35		160	1		4700305	
c	90273			WASHER C SUNK		L					135		60	- <del></del>		4700310	
C	90273			WASHER C SUNK	ı	t						09				4500122	
В	90275			MOTOR SYNCHRONOUS	4	- 1						111	60			4400053	
В	90283			WASHER SHOULDER	-	1		- 1			35			1		4800300	
В	90283	1	_1_	WASHER	+	-							60			4800261	
В	90284	,		WASHER INSULATED	ļ	1					35		60	'   -		4800300	
8	90284	. [	1_	WASHER			JPI						60			4800408	
В	90284			WASHER INSULATOR	ı		J JPI				3 5		61	. 1	01160		
A	90286	- [		BOLT HEX HEAD	-1		J JP				135		60			4100309	
A	90286	,	- T	BOLT HEX HD			JJP				3:					0 410037	
A	90286	5		BOLT HEX HEAD	$\perp$		U JP		A F		$-\frac{12}{3}$					0 4100204	
A	90302	2		SURFACE TREAT	- 1	- 1	UJP			?	3		6			0 410021	
A	90301	2		SURFACE TREATMENT	$\perp$		<u>J JP</u>	L M	Α,	₹	13	5105	104		1 07110	JPL 0513 JU	

DENOTES CHANGE TO PREVIOUS LIST

JET PROPULSION LABORATORY

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				CALIFORNIA INS			or	UNOI	204	DASADE	MA 1	ALIE				DATE LISTED	0
_				MARINER R	1111	2	NUM	RIC	AL	BY D	) I V	, ALIII		PAGE	5 2	4-12-63	3
R	DRAWING NO.	LI	ST	TeTLE	4	3	******		WALOE	11 FOR	7 E E P.	111	TASE TS	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ţ
3			10-	SURFACE TREATSHANDLE	-	U	JPL.	MA	_	1200	35		61		184100	4100220	Т
4	90302		1	SURFACE TREATSHANDLE	Ì	10	JPL	MA			35	04	1	ا ر	185100	4100221	
<u>A</u>	90302		╁	SURFACE TREATCHANDLE	⊢	Ŭ	JPL	MA			35	04		J	185400	4100222	ı
A	90302			SURFACE TREATSHANDLE		lŭ.	JPL	MA			35		61	ن	021300	4100377	1
<u> </u>	90302	_	1.	SURFACE TREATMENT	-	li U	JPL	MA			35		62	J	028500	4100401	Τ
A	90302		A	SURFACE TREATMENT	1	lŭ.	JPL	MA				0.2		Ĵ		4100409	
Α_	90302		1	SURFACE TREATMENT	╁	Ιŭ	JPL	MA			35	04	61	J		4100424	
Ą	90302	i	1	SURFACE TREATMENT	ı	Ιŭ	JPL	MA		ļ	35	04	61	j.	032000	4100432	1
A	90302		1	SURFACE TREATMENT	⊢	tü	JPL	MA		-	35	04	61	<u> </u>	017500	4100446	П
Ą	90302	l		SURFACE TREATMENT	i .	Ιŭ		MA			35	1 ~	61	ر	033000	4100447	1
<u>4</u>	90302		1	SURFACE TREATMENT	╁	뜮	JPL				35	04		J	039000	4100474	П
4	90302		1	SURFACE TREATSHANDLE		lu.	JPL	MA			135	1	1	ز	039300	4100483	H
٩	90302		_	SURFACE TREATSHANDLE	╁	냽	JPL	MA			35	0.3	61	J	040900	4200588	1
١	90302			SURFACE TREATGHANDLE	ı	ľů	JPL	MA		1	35	0.4		ŭ		4400210	
3	90302	L	┸	SURFACE TREATMENT	+-	lu	JAF	MA	R		35	0.4		J	182600	4600339	,
Ĭ	90302			SURFACE TREATSHANDLE	1	1~	JPL	MA		ł	35	1 -	61	رّا		4700301	
١	90302	1		SURFACE TREATMENT	╀	U		_			35	04	61	J	221600		
ζ	90302		Т	SURFACE TREATSHANDLE	ì	U	JPL	MA	R		35	1 ~	1 -	1 7		4800061	
4	90302	1	1.	MIRROR FINISH	┺	Ų					35	04		<del>- 3</del>		4800062	
Ā	90302		Т	MIRROR FINISH	П	U	1			1	35		1	ı y		4800314	
4	90302	l		SURFACE TREATSHANDLE		Į٧	JPL			<del> </del>	35		_	J		4800314	
Á	90302		Ţ	SURFACE TREATSHANDLE	ì	U				1	35			1 7		4800343	
A	90302	-1		SURFACE TREATMENT	4	Ų				<del> </del>	35			+ <del></del>		4800406	
A	90302		Т	SURFACE TREATSHANDLE		ļu				i				J		4800410	
A	90302	1	1	MIRROR FINISH	1	ĮΨ					35		61	1 5		4800427	
Á	90302	1	Т	SURFACE TREATMENT	Т	Ţυ					35		ion	1		4800428	
A	90302		- 1	SURFACE TREATMENT	_ _	ļ۷					35		61	+;		4800429	
Ā	90302		1	SURFACE TREATMENT	1	1	1.			1	1	1 -		j		4901001	
A	90302		-	SURFACE TREATSHANDLE	4	1				<b>_</b>	35		61			4200034	
A		T^-		TRANSIPAD INSTALL	1	ļ					35		61	J		4200049	
A	90303		1	TRANSIPAD	+	Ų.					35		61	1 -		420035	
A			T	TRANSIPAD	П	Įυ				1	3:		61	1 -		4200409	
A	90303	.		TRANSIPAD	1	1					3 :			<del> !</del>		420051	
A			-	TRANSIPAD INSTL	-	l					135		61	J.		420051	
A			1	TRANSIPAD INSTL		Ų					3		61	J		420053	
Á			$\top$	TRANSIPAD	Т	T					3		2 61	J.		420054	
Ä				TRANSIPAD INSTL	_	_1					3		2 61			420054	
7			+	TRANSIPAD	T	T	JPI				3:		2  61			420055	
7			- [	TRANSIPAD INSTL	_	1					_ 3'		2 61				
Ź			+	TRANSIPAD INSTL	Ţ	Ų					3		2 61		099000		
	90303		-	TRANSIPAD !NETAL	- 1	Ιţ	رور ار	. M/	A F	<u> </u>	3_	5 <u>  0</u> :	2 [6]		03640	3 480034	4

				CALIFORNIA MARINER							CALIF.		PAGE	53	4-12-6	
	DRAWING NO.	PA11	31	<del></del>	4 5	1	10101	MAIO MAIO	ASS FOR 8 (76 0	BEIP.		1418	DRAWING CONTROL STATUS		NEXT ASSEMBLY	7
Н	90303		+	TRANSIPAD INSTL	+	u	JPL	MA R	THIU STA.	35	0.2	61	J	193000	4800396	$\exists$
1	90306		1	TERMINAL		lu.	JPL	MA R		35	02	61	Ĵ		4200501	
1	90306		+-	TERMINAL		ŭ	JPL	MA R	t			61	J		4200502	
i	90306	1	1	TERMINAL		ŭ	JPL	MA R		35		61	Ĵ		4200541	
1	90312		+-	STUD LOCK FEMALE		ũ	JPL	MA R		35		61	Ĵ		4200033	
	90312		1	SCREW LOCK MECH		ū	JPL	MA R	ł	35	03		Ĵ		4200053	
t	90312		+	STUD LOCK	$\dashv$	ŭ	JPL	MA R				61	Ĵ		4200351	
ı	90312		1	STUD LOCK		u	JPL	MA R	1		03		Ĵ		4200503	
t	90312		T	STUD LOCK	$\neg$	ŭ	JPL	MA R		35		61	<del></del>		4200513	-
I	90312		1	STUD LOCK		Ιŭ	JPL	MA R			03		Ĵ		4200523	
t	90312		1	STUD LOCK	_	ŭ	JPL	MA R		35	03		<del></del>		4200533	
I	90312		1	STUD LOCK	- 1	Ιŭ	JPL	MA R			03		Ũ		4200543	
İ	90312		1-	STUD LOCK	丁	ŭ	JPL	MA R		35	0.3		J		4200553	
١	90312		1	STUD LOCK	1	ŭ	JPL	MA R		35	03		ī		4200563	
ł	90312		1	STUD LOCK	_	ŭ	JPL	MA R	1	35		61	<del></del>		4200573	
I	90312			STUD LOCK FEMALE	- 1	ŭ	JPL	MA R	İ	35	03		j.		4200580	
ŀ	90312		+	STUD LOCK	+	Ü	JPL	MA R		35	03		<del></del> j		4400003	
l	90312		i	SCREW LOCK MECH	- 1 "	ŭ	JPL	MA R			03		J		4400011	
ł	90312	-	+-	STUD LOCK FEMALE	+	ŭ	JPL	MA R	<del>                                     </del>		03		J		4400031	
l	90312	ł	1	STUD LOCK FEMALE		ŭ	JPL	MA R	ĺ	35					4400042	
ł	90312		1	SCREW LOCK MECH		ŭ	JPL	MA R			0.3		J		4400046	
١	90312	l	1	STUD LOCK FEMALE		ŭ	JPL	MA R	İ		01		i i		4400204	
t	90312		+	STUD LOCK	1	ŭ	JPL	MA R	<b>!</b>		03		<u>J</u>		4600318	-
ı	90312		1	STUD LOCK FEMALE		ŭ	JPL	MA R	1		03		Ĵ		4600333	
l	90312		t	STUD LOCK		ti	JPL	MA R	!		0.3		J		4800261	
۱	90312		l	STUD LOCK		Ū	JPL	MA R	1		03		Ĵ		4800263	
t	90312	<u> </u>	+	STUD LOCK FEMALE		ŭ	JPL	MA R			03		J		4800297	
l	90312			STUD LOCK		Ū	JPL	MA R			03		Ĵ		4800300	
t	90313	T	$\top$	MALE LOCK ASSY	$\top$	Ū	JPL	MA R			03		J		4200033	
۱	90314	l		CONNECTOR INSTALL		u	JPL	MA R			03		j i		4200033	
t	90314	Ι	1	CONNECTOR INSTALL	_	ŭ	JPL	MA R	†			61	J		4200038	
١	90314	l		CONNECTOR INSTALL		ŭ	JPL	MA R	l	35		61	Ĵ		4200053	
t	90314	t	1	CONNECTOR INSTALL		u	JPL	MA R			03				4200351	
I	90314	l	1	CONNECTOR INSTL		u	JPL	MA R	ŀ	35		61	ŭ		4200503	
t	90314	T	<b>†</b>	CONNECTOR INSTL		ŭ	JPL	MA R	1			61	J		4200513	
l	90314	l		CONNECTOR INSTL	ł	ŭ	JPL	MA R	ł	35		61	Ĵ		4200523	
t	90314	<b></b>	t	CONNECTOR INSTL		Ü	JPL	MA R		35	08		<del></del>		4200533	
Ì	90314	l	1	CONNECTOR INSTL		ŭ	JPL	MA R	1	35	0.8	61	Ĵ		4200543	
t	90314	$\vdash$	† <del>-</del>	CONNECTOR INSTALL	-	Ü	JPL	MA R		35		61	J		4200553	
I	90314	l		CONNECTOR	1	Ū	JPL	MA R		35	08		ا	099800	4200563	

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DRAWING LIST	MARINER R 62 NUMERICAL BY DIV	PAGE	54	4-12-63

		9458			1	:	*****	PELEASE FOR	***		1451	DRAWING	I	NEXT	1
Ĭ	DRAWING NO.	BQ.	1 5	TITLE	:	3	C006	SERIAL THRU SE		¥0.	10.	DRAWING CONTROL STATUS		ASSEMBLY	é
C	90314		1	CONNECTOR INSTL	_	U	JPL	MA R	35	08	61	J	101700	4200573	
C	90314		<u>L</u>	CONNECTOR INSTL		U	JPL	MA R	35	08	61	J	103900	4200580	
C	90314		Ī	CONNECTOR INSTL	*	U	JPL	MA R	35	08	61	J	143403	4400003	1
Ç	90314		ļ	CONNECTOR INSTALL		u	JPL	MA R	35	03	61	J	134100	4400011	1
C	90314			CONNECTOR INSTALL		U	JPL	MA R	35	03	61	J	138900	4400031	
C	90314		L	CONNECTOR INSTL		u	JPL	MA R	35		61	J		4400042	<u> </u>
C	90314			CONNECTOR INSTL		U	JPL	MA R	35	08	61	J		4400046	
U	90314		L	CONNECTOR	_	U	JPL	MA R	35		62	J		4400204	$\perp$
0	90314		l	CONNECTOR INSTALL	l	U	JPL	MA R	35		61	J		4600318	
C	90314		┖	CONNECTOR INSTL	L	U		MA R	35		61	J .		4600333	↓_
C	90314		l	CONNECTOR INSTL	l	ļυ	JPL	MA R	35	08	61	J		4800261	İ
<u>C</u>	90314		┖	CONNECTOR INSTL	L.	U	JPL	MA R	35		61	J		4800263	ļ
۲	90314		ĺ	CONNECTOR INSTL	l	U	JPL	MA R	35	08	61	ļ		4800291	
C	90314		┖	CONNECTOR INSTL	*	U	JPL	MA R	35		61	J		4800293	↓
C	90314			CONNECTOR INSTL	İ	U	JPL	MÄ R	35	08	61	J		4800297	
C	90314			CONNECTOR INSTL		U	JPL	MA R	35		61	J		4800298	
C	90314			CONNECTOR INSTL	I	U	JPL	MA R	35		61	J		4800300	1
C	90314		L	CONNECTOR INSTAL		U	JPL	MA R	35		61	J		4800339	<u> </u>
2	90314			CONNECTOR INSTL		Ü	JPL	MA R	35		61	J		4800380	
C	90314		<u> </u>	CONNECTOR INSTL		U.	JPL	MA R	35		61	J		4900299	<u> </u>
C	90316			SPECIMEN TENSILE		U	JPL	MA R	35		61	J		4400031	1
A	90344		_	WASHER FLAT	ᆫ	Ų	JPL	MA R	35		61	J	033200	4800065	ļ.,
Α	90346		Α	SCREW MACH SOCKET HD		U	JPL	MA R	35		61	J		4100303	
A	90346		Α	SCREW MACH SOCKET HD	<u> </u>	U	JPL	MA R	35	09		J		4100304	_
A	90346		1	SCREW INTERNAL WRNCH		U	JPL	MA R	35		61	J		4100306	
A	90346			SCREW SOCKET HD	_	U		MA R			61	J		4100306	_
Α	90346		Α	SCREW MACH SOCKET HD		U	JPL	MA R	35		61	J		4100310	
A	90346		L	SCREW INT WRENCH	L	U	JPL	MA R	35		62	J		4100375	ļ
Α	90346		ļ.	SCREW IN WRENCHING		U	JPL	MA R	35	03	61	J		4100400	
A	90346		L.	SCREW MACH	L	U	JPL	MA R	35		61	J		4100416	₩.
Α	90346			SCREW MACH SOC HEAD		U	JPL	MA R	35		61	J		4100419	
Α	90346		L	INTERNAL WRENCHING	_	U	JPL	MA R		0.3	61	J		4100445	
A	90346		1	SCREW		U	JPL	MA R	35	03	62	ن ا		4100467	1
A	90346		oxdot	SCREW	_	U	JPL	MA R	35		61	J.		4100464	1
Α	90346		i _	SCREW SOCKET HEAD		U	JPL	MA R	35		61	J		4200588	
A	90347		L.	SCREW PAN HD	L	U	JPL	MA R	35		62	J		4100315	ļ
A	90347		]	SCREW MACH PAN		U	JPL	MA R	35		61	ر		4100410	
A	90347		1_	SCREW MACH PAN HD	L	u	JPL	MA R	35	03	61	J		4100416	Ļ.,
A	90347		1	SCREW MACH PAN HEAD		U	JPL	MA P	35		61	J		4100419	
Α	90347			SCREW MACH PIN HI		IJ	JPL.	MA P	35	las.	61	. J	075720	4900318	1_

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P	AWING	LI	ST	CALIFORNIA IN: MARINER F								ALIF.		PAGE	55	4-12-6
	DRAWING NO.	948H 80.	15		ŧ	CLASS	*f###1		BAUGE		#115. ##.		144	DRAWING CONTROL STATUS		MEXT MEXT
4	90348		+-	SCREW MACH	┢	U	JPL	MA		/	35		61	J	011800	4100303
4	90348		Α	SCREW MACH 100 D	1_	U	JPL	MA	R		35	09	61	J	011300	4100304
4	90348		T	SCREW MACHINE	Г	Ü	JPL	MA	R		35	03	61	j	007300	4100306
4	90348		ļ	SCREW MACH FLT HD	ł	U	JPL	MA	R		35	03	61	J.	010500	4100310
3	90358		T	TRANSISTOR INSTALL	П	U	JPL	MA	R		35	06	61	J	134200	4400011
3	90358			TRANSISTOR INSTL		U	JPL	MA	R		35	06	61	j		4400031
3	90362		1	WASHER FLAT	T	U	JPL	MA	R		35	07	61	J	011400	4100304
3	90362		1	WASHER FLAT INSUL		U	JPL	MA	R		35	07	61	ز	010600	4100310
3	90362		$\top$	WASHER FLAT INSUL	T-	Ü	JPL	MA	R		35	07	61	<del>- J</del>	032700	4100445
3	90392		1	WASHER INSULATION		υ	JPL	MA	R		35	10	61	J	141600	4400042
3	90393		Т	SPACER		u	JPL	MA	R		35	10	61	J	141700	4400044
,	90394		1	NUT HEX JAM		Ū	JPL	MA	R		35	11	61	J	000300	4100309
,	90398		1	WASHER SHOULDER INSL		u	JPL	MA	R		35	0.5	62	J	010700	4100310
	90398		1	WASHER SHOULDER		Ιū	JPL	MA	R		35	05	62	J	032800	4100445
	90399		1	PASS SST	Г	Ü	JPL	MA	R		35	01	62	J		4200840
	90401		1	PASSIVATION		Ιŭ	JPL	MA	R		35		62	Ĵ		4200830
	90401		+	PASSIVATION	t	ΙŬ	JPL	MA	R		35		62	J		4200863
	90410		1	HUCK RIVET INSTL	l	ľů	JPL	MA	R		35	04	62	.i		4100303
	90568		┿	O RING STANDARD	✝	Ιŭ	JPL	MA	R		35	-	60	j		3137127
i	90568		1	O RING STANDARD	1	lo.	JPL	MA	R		35	01	60	- i		4700304
	90568		+	O RING STANDARD	1	Ιŭ	JPL	MA			35		60	Ĵ		4700318
,	90568		1	O RING STANDARD		Ĭŏ.	JPL	MA	R		35		60	ĭ		4700320
<u>,</u>	90568		+	O RING STANDARD	1	lŏ.	JPL	MA	R		35	01	60	<del>y</del>		4700321
,	90568			O RING STANDARD	•	Ιŭ	JPL	MA	R		35		60	J		4700322
<u>_</u>	90568		+	O RING STANDARD	╁	H	JPL	MA	-		35		60			4700325
	90568		i i	O RING STANDARD	İ	U	JPL	MA	R		35		60	-		4700326
_	90568		+	O RING STANDARD	⊢	10	JPL	MA			35		60	<u>J</u>		4700326
,	90568			O RING STANDARD	1	lu U	JPL	MA			35	01	60	اد		4700334
-	90568		la		⊢	Ü	JPL	MA	R		35	_	60	J		4700335
,	90568		ľ	O RING STANDARD		Ιŭ	JPL	MA	R		35	01	60	j		4700338
-	3151037		╁	SHIM	╀	lü	JPL	MA			35	-	60			4100384
		1	l.	•	1	U	JPL	MA			35	11	60	,		4100306
_	3151049		8	BRACKET CONNECTOR BRACKET CONNECTOR	+	+-	JPL	MA			-	**	60	,		4100306
	3151049	i	B	BRACKET CONNECTOR	-	U	JPL	MA			35	J	60	J		4100505
_			100	GROUND PLANE	*	U	JPL	MA	R		35		63	<u> </u>		4100323
2	3151066	Ì				1 -	JPL		R		35		1	_		4100436
<u>-</u>	3151068		В	STIFFENER	۳	1-		MA	R				63	<u>J</u>		
	3151073		C	CAP	1	U	JPL	MA			35		61	J		4100322
	3151078			PLUG	*	10	JPL	MA	R		35		63	ــــــــــــــــــــــــــــــــــــــ		4100324
	3151080		E	SHELL CONNECTOR	*	1 -	JPL	MA	R		35		63	١		4100323
3	3151087	1	B	STUD THREADED 4 FT	<b>  *</b>	U	JPL	MA	R	1	35	01	63	J	027900	4100331

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DRAWING LIST	MARINER R 62 NUMERICAL BY DIV	PAGE	56	4-12-63
DKAWING LIST				

2	DRAWING NO.	245# BO.	67.	TITLE	1	3	16001	<u> </u>	#410E	174 W	PERF.		78	SRAWING CONTROL STATUS		NEXT ASSEMBLY	1
<del>-</del> 1	3151129		В	CONNECTOR ASSEMBLY	H	Ü	JPL	MA	R	TP40 149.	35	0.5	61	11103	021800	4100320	Ť
	3151130			BODY		lŭ.	JPL	MA			35	08	60	ا رّ ا		3151129	1
	3151131		Â	INSULATOR CONN R ANG	*	ŭ	JPL	MA			35	01	63	J		3151129	+
- 1	3151132		IÃ I	INSULAT CONN R ANGLE		u	JPL	MA	R		35	01	63	Y		3151129	1
	3151132		B	CONTACT R ANGLE CONN	+	U	JPL	MA	Ŕ		35	01	63	J		3151129	+-
	3151135			COUPLING R ANGLE	*	U	JPL		R		35	01	63	ا رّ ا		3151129	
	3151141			CAP ASSY	ļ-	ŭ	JPL	MA	R		35	06	61		010900	4100310	<del>  -</del>
	3151157			STUD	*	u	JPL	MA	R	1	35	01	63	J		4100324	1
_	3151165		A	SPACE R ANGLE CONN	*	ŭ	JPL	MA			35	01	63	l J	022400	3151129	+-
	3151166			BUSHING COND R ANGLE		ŭ	JPL	MA	R		35	01	63	Ĵ		3151129	1
	3151174		F	NUT PLAIN HEXAGON	*	ŭ	JPL	MA	R		35	01	63	<u> </u>		4100320	1
	3151183			MTG LOC ALIGN DEVICE		ŭ	JPL	MA	R		35	09	60	j		4100303	1
	3151193		1	CLIP ELECT DISCONN	Н	ŭ	JPL	MA	R		35	11	60	J		4100303	1
	3151194		В	BRACKET EL DISCONN		υ	JPL		R		35		61	l J		4100310	1
	3151723		A	ANGLE INSIDE	-	ŭ	JPL	MA	R		35		62	J	012200	4100303	+
	3151724		Â	ANGLE FRAME		ŭ	JPL	MA	R		35	1 -	62	Ĵ	012300	4100303	i
	3151777		Â	BRACKET ACTUATOR	┢╌	Ü	JPL	MA	R		35		62	J	012400	4100303	+
	3151781			HOUSING COAX JT		ŭ	JPL	MA	R		35	02		ŭ		4100384	
	3151800		۳	WASHER	-	ŭ	JPL	MA	R		35	03		J		4700304	+
	3151800			WASHER		l ii	JPL	MA	R		35		61			4700335	1
	3151862		A	SCREW BUMPER	-	Ŭ	JPL	MA	R		35		62	J		4100443	$\top$
	3151864		A	BRACKET PIVOT ARM		ľů	JPL	MA	R		35	03	62	1		4100443	1
	3151959	_		COVER HOUSING		ŭ	JPL	MA	R		35	-	62	J		3151960	_
	3151960	İ	ľ٩	COVER ASSY HOUSING	*	ŭ	JPL	MA	R		35		61	1 3		4100310	
	3151961		8	HOUSING GEAR ASSY	*	Ŭ	JPL	MA			-	01	63	J		4100384	+
	3152595		lc	SUPPORT PHOTO CELL		ŭ	JPL		R		35	11	60	ار ا		4200666	
	3152596	-	Ċ	SHIELD LIGHT SENSOR	-	ŭ	JPL	MA			35		62	J		4200666	$\top$
	3158416		Ā	SUBCHASSIS MACHINED	l	ŭ	JPL	MA	R		35	oi	61	آر ا		4600327	
	3158416	<del></del>	Ā	SUBCHASSIS MACHINED	1	ŭ	JPI		R		35	0.1	61	Ĵ		4600328	1
	3158874		В	CABLE RETAINING BRKT	1	ŭ	JPL	MA	R		35	0.4	61	1 5		4800296	
	3158874	$\vdash$	В	CABLE RETAINING BRKT		Ü	JPL	MA	R		35		61	1 1		4900501	T
	3172189		ľ	XPONDER CAVITIES 2A3		ŭ	JPL	MA	R		35	11	61	آر ا	077900	4900501	
	3172190		A	BRACKET	1	ŭ	JPL	MA			35	09		Ĵ		4600008	
	3172209	ļ	[	CABLE DETAILS	-	U	JPL	MA	R		35		61	رَ ا		3172189	
	4100049	-	+-	PIN LOCATING	<del>                                     </del>	ŭ	JPL		R		35		61	L L	012500		
	4100143		A	GUSSET SUPP STRUCTOR	*	_	JPL	MA	R		35	01	63	ا آ		4100151	1
	4100143		A	GUSSET SUPP STRUCTUR	*	Ū	JPL	MA	R		35		63	1 5	024200		1
	4100148		A	DOUBLER SUPPT STRUCT	*	ŭ	JPL	MA	R		35	12	62	ر ا	023600		1
_	4100149			STIFFENER SUPP STRUT	-	ŭ	JPL	MA	R		35	01	63	i j		4100335	
	4100149		1^	DOUBLER SOPP STROT	1	u	JPL	MA	R	]	35		61	1 5		4100321	1

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DI	RAWING	LI	s 1	. MARINER F	₹ (	62	NUM						PAGE	57	4-12-6	3
1	DRAWING NO.	945H BQ.	4:1	TITLE	ŧ	3	4E # 100 E		LIASE PE 1009 17E			1441 478 Y4.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	i f
0	4100151		В	CHANL WELDMENT SUPPT	*	Ū	JPL	MA		35	12	62	Ĺ	023700	4100336	
18	4100152	<u> </u>	₿	CHANL WELDMENT SUPPT	*	ļu_	JPL	MA F		35	12	62	J		4100336	$\sqcup$
0	4100153		A	CHANL SUPPT STRUCT	*	U	JPL	MA		35	12	62	J		4100151	
10	4100153		A	CHANL SUPPT STRUCT	*	U	JPL	MA		35	12	62	J		4100152	$\Box$
ľ	4100154		A	RING	1.	l.	JPL	MA		35	06	61	J		4100336	1 1
1	4100157		A	BRACE PIVOT ARM	*	U	JPL	MA		35		63	J		4100336	┦
15	4100157			REFLECTOR HI GAIN	,	U	JPL	MAF		35		63	٠.		4100335	
1	4100190		Ä	DOUBLER SPT STRUCT	-	U	JPL	MA F		35	12	62	J		4100321	<b>⊢</b> I
8	4100190			DOUBLER SPT STRUCT	1	10	JPL	MA F	· I	35	06	61	J		4100151	
B	4100190		Â	DOUBLER STRUCT	Н	ĺΰ	JPL	MA		35	06	61	<del>- y</del>		4100152	┼┤
В	4100191		I A	DOUBLER RING FLANGE	*	U	JPL	MA	· I	35	01	63	٠,		4100330	1 1
Ď	4100194			RING FLANGE INNER	i÷	Ü	JPL	MA				62	J.		4100154	+1
Ιċ	4100195			STRIP INNER ANTENNA		lu.	JPL	MA F				63	ر		4100336	1
8	4100196		A	DOUBLER RING FLANGE	*	ŭ	JPL	MA F			01		J		4100321	Н
lō.	4100198		A	STRIP OUTER SUPPORT	*	Ιŭ	JPL	MA F		35		62	ا ر		4100321	ÌΙ
7	4100199		A	STRIP RADIAL ANTENNA	*	ŭ	JPL	MA F		35		63	<del>- j</del>		4100321	<del> </del>
U	4100200		Α	LOUVER INSTALLATION	l	Ιŭ	JPL	MA F				61	ا ٽ		4900501	1 1
D	4100201			HOUSING ASSEMBLY	*	Ū	JPL	MA F	1		_	62	J.		4100223	$\vdash$
	4100202			HOUSING ASSEMBLY	*	Ιŭ	JPL	MA F		1	12	62	Ĭ.		4100223	Ιł
C	4100203		В	PLATE LOUVER END	*	u	JPL	MA F		35	01	63	J		4100223	П
٥	4100204		8	ACTUATOR ASSY LOUVER	*	lu	JPL	MA F	ı l	35	01	63	ا ر		4100416	ΙI
D	4100204		В	ACTUATOR ASSY LOUVER	*	U	JPL	MA F		35	01	63	J		4100419	
В	4100209			STOP		U	JPL	MA F	<u>. L</u>	35	07	61	J	200700	4100201	
B	4100209			STOP		U	JPL	MA F	1	35	07	61	J	201000	4100202	
0	4100210			LOUVER ASSEMBLY COMP	*	Ų		MA F				63	J	031000	4100419	Ш
D	4100211			LOUVER ASSEMBLY	*	U		MAF				63	J	031200	4100210	
B	4100212			SHAFT	<u>L</u> .	U	JPL	MA F				61	J		4100210	
В	4100212		A	SHAFT	١.,	U	JPL	MA F	· I		-	61	ا ر		4100220	il
	4100213			HOUSING TRUST BEARNG		U	JPL	MA F			01	63	٠,		4100210	Н
C	4100214			BEARING ASSEMBLY	*	U	JPL	MA F				63	J		4100210	
В	4100214			BEARING ASSEMBLY	*	ш	JPL	MA_F				63			4100220	$\vdash$
	4100215		A	SHAFT SHAFT	*	U	JPL	MA F		35	01		١.		4100214	
H	4100215		A	RETAINER SELF-LOCK	*	U	JPL	MA F			01		<del></del>		4100214	$\vdash$
B	4100216			RETAINER SELF-LOCK	*	וטו		MA F			01 01		Ĵ		4100214	
_	4100217		Â	WASHER	*	٥	JPL	MA F		35	01	63	<del>- j</del>	031520	4100214	$\vdash$
l i	4100217		امَا	WASHER	*	U	JPL	MA F			01	63	j		4100214	
ΙĔ	4100218			BEARING	*	Ü	JPL	MA F			01	-	J		4100214	$\vdash$
lв	4100218		A	BEARING	*	ΙŭΙ	JPL	MA F			07		j		4100214	
_	NOTES CHANGE TO	PREVIO	_						<u> </u>		٠,,	الفت			JPL 0513 JUNE	٦

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R	AWING	LI	s t	MARINER										PAGE	58	4-12-6
	DRAWING NO.	918# #0.	<b>1</b> 1	TITLE	983	88713	COGE	-		7 17 E W	411). PV.		71.	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	4100219		A	PAD	*	U		MA			35		63	J		4100214
_	4100219		A	PAD	*	U	JPL	MA			35	01	63	J		4100214
- 3	4100220		١.	LOUVER ASSY	ı	U	JPL	MA		1	35	09	61	J		4100416
	4100221		A	LOUVER ASSY	├	Ų	JPL	MA			35	-	61	<u> </u>		4100220
	4100222		A	HOUSING	١.	U	JPL	MΑ		1	35	09	61	J		4100220
	4100223		В	RACK INSTALLATION HOUSING ASSY	*	U	JPL JPL	MA		L	35		63			4900502
	4100225		Â	HOUSING ASSEMBLY	l	U	JPL	MA			35 35	09	61 61	J J		4100201
	4100228		Â	ACTUATOR SPIRAL COIL	-	밥	JPL	MA			35	01	63	<del></del>		4100202
	4100228		I A	ACTUATOR SPIRAL COIL	1	Ιŭ	JPL	MA					63	j		4100204
	4100229		<u> </u>	TEE	-	ŭ	JPL	MA		<del></del>	35	06	61	<del></del>		4100336
	4100303			HEX STRUCTURE ASSY		Ιŭ		MA			35	10	62	Ĵ		4100304
1	4100304		A	STRUCTURE ASSEMBLY	*	Ū	JPL	MA			35	11	62	J		4100310
Ì	4100306	-1	c	SOL PAN PLUS X 4A11	*	Ū	JPL	MA	R		35	11	62	ز		4100309
1	4100306	-2	(	SOLAR PANEL - X 4A12	*	Ū	JPL	MA	R		35	11	62	J		4100309
1	4100309			SPACECRAFT ASSEMBLY	<b>*</b>	U	JPL	MA	R		35	08	62	J	000100	
1	4100310		A	EQUIPMENT ASSEMBLY	*	U	JPL	MA	R		35	11	62	J	010300	4100309
	4100312			LINK ASSY SOLAR PAN	ŀ	U	JPL	MA	R	f	35	11	61	J	019300	4100315
	4100313			END SOL PAN LINK		Ų	JPL	MA	Ŕ		35	11	61	J	015500	4100304
ч	4100314			SUPPORT SOL PAN LINK	<u> _</u>	U	JPL	MA	R		35	11	61	J	019400	4100315
	4100315		A	LINK SOLAR PANEL SPT		U	JPL	MA	R		35	03	62	٤	019100	4100310
	4100316			SPACER SOL PAN LINK	<u>_</u>	U	JPL	MA	R		35	11	61		015600	4100304
	4100316			SPACER SOL PAN LINK		U		MA				11	61	J	019500	4100315
	4100318			PLATE STA 438.281	*	υ		MA			.,,	11	62	J		4100518
	4100320			ANTENNA 4FT ASSY	*	U	JPL	MA					62	ا ن		4100400
	4100321		Α	REFLECT HI GAIN ANTT	*	<u></u>	JPL	MA				12	62	J		4100320
	4100322			FEED ANT 4FT PARABOL	l.	U	JPL	MA			35	01	62	J.		4100320
	4100323			OUTER CONDUCTOR ASSY	*	Ü	JPL	MA			35	01	63	٠.		4100322
	4100324		В	INNER CONDUCTOR ASSY	*	U	JPL JPL	MA MA					63	J		4100322
	4100325			CONDUCTOR INNER ANTE	*	Ų.	JPL	MA				01	63	J		4100324
	4100327		Â	CONDUCTOR OUTER ANT	,	Ü	JPL	MA			35	01	63	ا ،		4100324
	4100328			FEED DIPOLE ELEMENT	*	Ü	JPL	MA			35		63	<del></del>		4100323
- 1	4100329			SLEEVE FEED ELEMENT	*	ŭ	JPL	MA	R		35	01	63	J		4100323
	4100330			SUPPORT PIVOT ARM	*	Ŭ	JPL	MA			35	_	62	J		4100323
	4100331		۱۲۱	LONGERON ASSY ANT	Ĩ	Ιŭ	JPL	MA			35		62	j		4100321
	4100332		A	LONGERON HI GAIN ANT	*	ŭ	JPL	MÁ			35		63	J		4100320
	4100333		Â	STUD SLOTTED ANT	*	Ιŭ	JPL	MA	R				63	ا		4100331
	4100334			HUB SUPPT STRUCT ANT		ŭ	JPL	MA	R				62	Ĵ		4100335
1	4100335		l''	HUB ASSY HI GAIN ANT	1	ı.	JPL	MA	R		35	01	62	,		4100335

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MARINER R 62 NUMERICAL BY DIV PAGE 59 4-12-63 DRAWING LIST

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DF	RAWING	LI	2 I												L	
Γ.			2.2			ī,	******		LIASE FOR	1117.	BALLA		BRAWING CONTROL		NEXT	3
1	DRAWING NO.	80.	18.	TITLE	5	3	COSE	BERIAL		•••	FO.	7.0	STATUS		ASSEMBLY	đ
3	4100336		Α	SUPPT STRUCT ASSY	*	J	JPL	MA	₹	35	12 6	52	J	023500	4100321	
lв	4100337		A	SCREW SHORTING BLOCK	*	Ų.	JPL	MA	₹	135	01 6	53	J	027600	4100322	
C	4100338	· ·	Α	INSULAT PIVOT ARM	*	U	JPL	MA		35		53	J		4100335	
lв	4100339		Α	INSULAT SLEEVE ANTEN	*	υ	JPL	MA	₹	35	01 6	53	J		4100335	
J	4100345		Α	YOKE EARTH SENS ANTE	*	U	JPL	MA	₹	35	10 6	62	J	028300	4100400	
c	4100346		Α	DRIVE OUTPUT YOKE		υ	JPL	MA	₹	35	04 6	62	J		4100310	i
চ	4100347		Ð	GEAR ASSY	_	U	JPL	MA	₹	35	04 6	52	J	019700	4100346	
D	4100348		Α	RING MTG		υ	JPL	MA	₹	35	01 6	52	J	019900	4100346	L
В	4100349			CAP	$\Box$	Ų	JPL	MA	₹	35	11 6	51	J	020000	4100346	
١ū	4100350			TRUSS SECTION 1 ASSY		υ	JPL	MA	₹	35	0.3 4	62	J	016200	4100304	
5	4100356		П	FITTING TRUSS ASSY		U	JPL	MA	₹	35	12 6	51	J	016900	4100350	
8	4100361		1	INSERT THERM SHIELD	!	Ú	JPL	MA	₹	35	11 6	61	J	017700	4100365	_
ō	4100362		A	SHIELD LOUVER HOUSE		Ü	JPL	MA	₹	35	09 (	62	J	020300	4100363	
b	4100362		A	SHIELD LOUVER HOUSE		U	JPL	MA	₹	35	09 6	62	J	020500	4100364	
ō	4100363		Α	SHIELD LOUVER INSTL	*	Û	JPL	MA	₹	35	09	62	J	020200	4100310	
Ď	4100364		A	SHIELD LOUVER HOUSE	*	υ	JPL	MA	₹	35	09 4	62	J	020400	4100310	
1	4100365		A	SHIELD THERMAL ASSY	_	U	JPL	MA	₹	35	09 6	62	J	017600	4100304	$\Box$
В	4100366			INSERT THERM SHIELD		Ū	JPL	MA	R l	35	11 1	61	J	017800	4100365	1_
В	4100367		1	INSERT RADIOMTR SPT		Ū	JPL	MA	₹	35		61	J	017900	4100365	
В	4100368			INSERT THERM SHIELD		u	JPL	MA	₹ .	135	11 1	61	J	018000	4100365	<u>l</u> .
A	4100369			INSERT THERM SHIELD		U	JPL	MA	R	35	11	61	J	018100	4100365	
В	4100373			INSERT		υ	JPL	MA	R .	35	111 1	61	J	018200	4100365	
Ī	4100374		A	BOLT EYE SOL PANEL		u	JPL	MA	3	35	03	62	ز	020900	4100375	
ľ	4100375		1	UPPER SOL PAN LATCH		ũ	JPL	MA	R .	135	03	62	J	020600	4100310	
c	4100376		1	LINK LATCH SOLAR PAN		U	JPL	MA	R	35	11	61	J	021100	4100375	
ΙĒ	4100377			BRACKET PIN PULLER		lυ	JPL	MA	₹	35	11	61	J	021200	4100375	1
盲	4100378		A	PLATE LATCH SOL PAN	t	ŭ	JPL	MA		35	03		Ĵ		4100306	_
ĺв	4100379		l'`	CLEVIS SOL PAN LATCH	ł	Ιŭ	JPL		R	35		61	ز		4100304	
H	4100380		ь	SUPPORT AGD SC MACH	*	ú	JPL	MA	2	35	01	63	J	012600	4100303	_
Ŭ	4100381		A	SUPPORT BEE SC MACH	l	Ιŭ	JPL	MA	R	35	03	62	j	012700	4100303	
L.	4100382		tc	SUPPORT A SC MACHING	*	Ū	JPL		R	35		63	J	012800	4100303	
ĭ	4100383		A		l	Ιŭ	JPL		R	35		62	Ĵ		4100384	
Ŭ	4100384		1	SUPPORT ANT PIVOT	1	ΙŪ	JPL		R	35		61	Ĵ		4100303	Г
ľč	4100386	1	A	FITTING	<b> </b> *	Ιŭ	JPL	MA	R	35	12	62	Ú	013500	4100303	1
Īč	4100387		A	TUBE	*	Ū	JPL	MA	R	35		62	J	013600	4100303	
lè	4100388	l	A	STIFFENER DIAGONAL	*	Ιŭ	JPL	MA	R	35		62	J	013700	4100303	
Ιč	4100389		A	BRKT ARMING SWITCH	*	U	JPL	MA	R	35	12	62	J	013800	4100303	
١ŏ	4100390		Α	BACKTIE	*	Ū	JPL	MA	R	35	12	62	J	013900	4100303	Ĺ
ΙĒ	4100391		À	TUBE STRUCT K BRACE	*	Ū	JPL	MA	R	35	12	62	J	014000	4100303	
Ιō	4100392	İ	A	BRACKET K BRACE RH	*	Ū	JPL	MA	R	35	12	62	ز	014200	4100303	<u>!</u>
-	ENOTES CHANGE T	O PREVI	_			-								-	JPL 0515 JUNE	E 61

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R	AWING	L I	s t	MARINER F	₹ (	52	NUM	RI	CAL	. BY C	ΙV			PAGE	60	4-12-6	.3
1	DRAWING NO.	PASM NO.	1	TITLE	ž	989	COOL			SE FOR I ITAN THED SEP.	1652. 915		14	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
2	4100393		Α	BRACKET K BRACE LH	*	U	JPL	MA			35		62	J	014300	4100303	
	4100394		Α	END FITTING STRUCT K		U	JPL	MA			35	12	62	بــــــــــــــــــــــــــــــــــــــ		4100391	
-	4100395		A	FITTING TUBE	*	U	JPL	MA	R	ĺ	35	12	62	J		4100303	
	4100396		A	BRACKET REF PLATE	*	Ų	JPL	MA			35	12	62	J		4100303	
	4100397		A	BRKT ARMING SWITCH	*	U	JPL	MΑ			35	12	62	J		4100303	
1	4100399		Α	ADAPTER SUN GATE	*	Ų	JPL	MA.			35	12	62	J		4100303	
П	4100400		A	YOKE ANTENNA INSTALL	*	Ū	JPL	MA			35	11	62	J	021500	4100310	
١	4100401		1	POST ASSY ROT COAX	L	U	JPL	MΑ			35	04	62	ال ال		4100400	
П	4100402		1	BEARING YOKE	1	U	JPL	MA			35	04	62	J	028600	4100400	Ĺ
١	4100403		f	WASHER	l	U	JPL	MA	R				62	J	020100	4100346	,
	4100404		Г	WASHER	Г	U	JPL	MA	R		35	04	62	J	019800	4100347	ŕ
	4100406		1	SHIELD BAY B TO C		lυ	JPL	MA	R		35	07	62	J	204100	4100410	į
┪	4100407		T	SHIELD LOWER	Г	U	JPL	MA	R		35	07	62	ل	204200	4100410	ī
1	4100408			SHIELD BAY E TO F		lυ	JPL	MA	R		35	0.7	62	ا ر	204500	4100410	ı
	4100409		+-	SHIELD BAY A TO B	$\vdash$	Ū	JPL	MA			35	07	62	J	204600	4100410	ĩ
	4100410			SHIELD THERMAL INSTL	ı	Ιū	JPL	MA			35		62	j '		4100309	
	4100411		+-	SHIELD LWR THERMAL	┢	Ū	JPL	MA			35	07	62	<del></del>		4100407	
	4100412		1	SHIELD BAY C TO D	ı	Ιŭ	JPL	MA			35	07	62	Ĵ		4100410	
	4100413		╁	SHIELD BAY D TO E	┼	Ιŭ	JPL	MA			35	07	62	J	204900	4100410	
- 1	4100414		1	SHIELD BAY F TO A	ı	Ιŭ	JPL	MA			35	0.7	62	i		4100410	
	4100416		+-	LOUVER INSTL	Н	Ŭ	JPL	MA			35		61	J	183500	4800296	
	4100418			MIRROR LOUVER ASSY	*	Ĭŭ	JPL	MA			35	01	63	,		4100419	
	4100419		Â	LOUVER INSTALLATION	÷	۱ř	JPL	MA			35	-	63			4100310	
	4100419		^	MIRROR ASSEMBLY	*	ľ	JPL	MA			35	04	62	,		4100400	
	4100420		₩	WASHER LONG RANGE	⊢	끊	JPL	MA			35		62	J		4100400	
			١.			1 -					35	09		, ,		4100400	
	4100422		A	SHADE EARTH SENSOR	*	Ų.	JPL	MA		ļ		-	62	<del></del>			
	4100423			BOX BAFFLE ASSEMBLY	ı	U	JPL	1			35	01	62	J		4100422	
_	4100424		↓_	SHADE DIRECT SUN	⊢	Ų.	JPL	MA			35	01	62	J		4100422	
	4100425			BAFFLE SET SHADE	ı	U	JPL	MA			35	01	62	J		4100422	
	4100426		L.	STUD LONG RANGE	┺	ĮŲ.	JPL	MA			35	04	62			4100400	
	4100427		ĺ	SHADE FIXED EARTH	ı	U	JPL	MA				, -	62	J		4100310	
	4100429		Α	MIRROR	*	Ų	JPL	MA			-	01	63	J		4100418	
	4100430		1	BRACKET SENSOR		U	JPL	MA		1		03	62	J		4100525	
	4100431		<u></u>	SADDLE PART FLUX DET	┖	Ų	JPL	MA			35	01	62	J		4100370	
	4100432			SPACER PRIMARY	1	U	JPL	MA					62	J		4100310	
.	4100434		Ι.,	SPACER COAX HOUSING	L.	U	JPL	MA			35	04	62	J		4100400	
	4100435		Τ	RETAINER LATCH		U	JPL	MA	R		35	03	62	J		4100375	
,	4100436		A	GROUND PLANE ASSY	<b> </b> *	lυ	JPL	MA	R		35	0.1	63	J	026500	4100323	J
_	4100437		A	HUB GROUND PLANE ANT	*	U	JPL	MA	R		35	01	63	J	026800	4100436	Š
- 1			1 .		<b> </b> *	Ιŭ	JPL	MA		1	35	01	63	ı ı		4100324	
В	4100438	O PREVI	A OUB	INSULATOR HI GAIN	*	U	JPL	MA	R		35	0.1	63.		027400		100324 JPL 0513 JU

) F	RAWING	LI	S.T	CALIFORNIA IN MARINER	R	62	NUM	ER I	CAL	r, pasad . By [	ena, 1 O I V	CALIF		PAGE	61	4-12-6
2	DRAWING NO.	8 15 M	4	FITLE	1	100	******	Г		111 704	<b>0159</b> .	*'.	CALE ATE	DRAWING CONTROL	1	
	4100439		1	DOUBLER PIVOT ARM	Ť	10	JPL	MA	DAL	THEY SER.	51Y.	Mo.	71.	STATUS		NEXT ASSEMBLY
	4100440		Α		۱.		JPL	MA			35		62	J	025700	
	4100441		П	ACTUATOR SWITCH		Ĭŭ	JPI	MA			35		63			4100324
	4100441			ACTUATOR SWITCH		ΙŪ	JPL	MA	- ' '		35	-	62	J		4100306
	4100442			CLIP MOUNTING MICRO	$\vdash$	ĺυ	JPL	MA	R				62	<del>,</del>		4100306
	4100443		L	STRUCTURE PIVOT ARM	<b> </b> *		JPL	MA	R	'		05		J		4100309
	4100445			ION CHAMBER PARTICLE		Ū	JPL	MA					62	J	032100	4100310
	4100447		Α	SHADE SUN PARTICLE	*	lū	JP	MA	R	1	1	-	62	-	032500	4100310
	4100448			GUIDE CABLE WELDMENT		Ū	JPL	MA				_	62	<u>J</u>	032900	4100445
	4100449		Α	SUPP&CABLE CLAMP ASY	L	ΙŪ	JPL	MA	R				62	,		4100306
	4100450			CLAMP CABLE ASSY		U	JPL	MA					62	<del></del>	001200	
	4100451		Ц	BEARING SOL PANEL		Ιū	JPL	MA	R				62	J	001300	4100495
	4100454			RADIOMETER GUARD INS	*	U	JPL	MA	R			09		J J	021000	4100374
	4100455		Ц	BLANKET THERMAL INST	*	Lu	JPL	MA	R			12	62	J,	205110	4100309
	4100456			BLANKET THERMAL ASSY	*	U	JPL	MA	R			12	62	-J	037600	4100310
	4100457			SUPPORT ANTENNA		U	JPL	MA	R			03		J	029800	4100455
	4100458			SHAFT ASSEMBLY ANT		U	JPL.	MA	R		_	03		J	029900	4100462
-	4100459			TUBE ANTENNA DAMPER		U	JPL	МΑ	R			23		j	030000	
	4100460	- 1	- 1	BUSHING ANT DAMPER	Ì	U	JPL	MA	R			03		J	030100	
	4100462			BOOT ANTENNA DAMPER		U	JPL	MA	R				62	ĭ	030200	
		ļ		ANT DAMPER INSTALL		U	JPL	MΑ	R		_	3 3			029600	
+	4100463 4100464			SPRING COMPRESSION	_!	U	JPL	MA	R	[:		17		ĭ	038000 4	
- [	100464		- 1	INSTALLATION STABLIZ	ļ	U	JPL	MA	R			7			037700	1100465
-	100466	+	-	STABILIZER ASSY VERT		U		MA	R	- 13			62	j !	037900	
	100467	- 1		SOCKET VERT STAB	- 1	U	JPL	MA	R	3	35 (	7			038800 4	100464
	100468		-4	PIN-VERTICAL STABLIZ	┙	U	JPL .	MΑ	R	13	35 lc	7	62	J	038100 4	
	100469	- 1	- []	FITTING VERTICAL	- 1	U	JPL	MA	3	13		7 1		<del>J</del>	038200 4	100465
	100470		-1'	RETAINER VERTICAL	_[	υĮ			R	3			52	Ĵ	038300 4	100465
	100470		1	INNER TUBE VERTICAL				MΑ	R	3	5 C	7	52	j	038400 4	100465
	100471		-15	DUTER TUBE VERTICAL	-+-	U		MA_	R L		5 0	7 0	52	ا ر	038500 4	
	100473	ı	- [:	BOOT-VERTICAL STABLZ			1		R	3	5 0	7 6	52	J	038600 4	
	100474		-   '	ROD VERTICAL STABL	~+	υļ			R	3	5 0	7.16	2	ار	038700 4	
1	100475		1	SPACER VERTICAL STBL	- 1	- 1		MΑ		3	5 0	7 6	52	J	038900 4	100464
	100476		- 18	ITTING HORIZONTAL					R	3	5 0	7 6	2	J	039100 4	100464
	100477	- 1	-15	DAPTER HORIZONTAL					R			7 6		J	039900 4	100464
	100478		+	UBE SUPPORT HORIZON	-	-			R			7 6	2	J	039400 4	
,	100479				- 1			., .	R	-		7 6	2	J	039500 4	
	100480		+	UBE INNER HORIZONTL					R			7 6	2	J	040000 4	100484
	100481		1	ITTING ATTACHMENT	T				3	3		7 6	2	J	039600 4	
	TES CHANGE TO P		_ـــــــــــــــــــــــــــــــــــــ	ATTACHMENT	_[]	JĮ、	JPL N	1A	₹ [	13	5 10	7 6	2	ا ر	039700 4	

) F	RAWING	L	s	CALIFORNIA I MARINER	R	6.	2 N	JME	RIC	CAL	BY	ENA, DIV	CALIF		PAGE	6.2	4-12-6
į	DRAWING NO.	941H NO.	1	7171.6	Т					1111	11 101			LASE	DRAWING		
~	4100483		+	OUTER TUBE ASSEMBLY	4				51 91		7=10 311.	• · · ·	40.	74.	CONTROL STATUS		MEXT ASSEMBLY
ċ	4100484		1	INNER TUBE ASSEMBLY	-	1			1A	R		35	07	62	J	039200	4100475
c	4100490		+-	ROD END ASSY	+	-   L	-	_		R		35	07	62	J		4100475
2	4100491		1	HOUSING BEARING	-1	اِ				R		35	05		J	205200	4100309
3	4100492		t	BUSHING ROD END	-+-	-15	1 11			R		35	05		J	205300	4100490
3	4100493		1	INSERT		II.	10.	- 1.		R		35		62	J	205400	4100490
	4100495		1	SUPPECABLE CLAMP ASY		Tu	10.			R		35	_	62	J	205500	4100490
	4100496		1	SPACER PYROTECHNIC	1	- Iu	1	- 1		ĥΙ		35	06	62	J		4100306
	4100498			BRACKET DIODE	十	۲ň	JÉ			R		35		62	_ J	040100	4100310
	4100498		<u>L</u>	BRACKET DIODE	1	Ιŭ		1		R	l		07	62	J		4100306
	4100501		"	STRUCTURE MCPU INSTL	*	Tu	-			R		35	0.5	62	<u>J</u>		4100306
	4100516		L	SET SCREW MODIFIED	1	ΙŪ	JP	LIM		R L		1		62	J		4100303
	4100519		1	SAIL ASSEMBLY PLUS X	Т	U	JP	LM		R			~ -	62		203600	4100490
	4100520		ᆫ	BRACKET SUN SENSOR	1	Įυ	JP	LM	Α	R		- 1		62	اد	001500	4100306
- 1	4100521			STANDOFF SOL SENSOR	1	Ū	JΡ	LM	Α	R				62	<del>-j</del> -	001600	
_1	4100525		_	PLATE LATCH SOL PAN		U	JP	LM	A I	R [	- 1			62	ĭ		4100306
- 1	4190225			SOLAR PANEL EXTENSI	*	U	JP	L M.	A i	R				62	<del>- j -  </del>		4100306 4100306
	4200002		Α	ATT CONT BOTTLES		U	JP	L M,	A I	R	- 1		~ :	62	ĭ	015300	4100306
- 1	4200033		_	SUN GATE ASSY		U	JP	- 1	A i	₹		35		61	J	040200	
	4200348		D A	ACCELEROMETER 7A3	*	ļŲ	JP	L M	A f	₹	1	35	12	62	ا ز		4900501
- 1	+200368			TRANSFORMER	1	U	JP	L M	A F	₹	T	35	07	61			420005°
	+200419			ATT CONTROL GYRO 7A1	*	U	JP	L M	A F	₹ [		35	12	62	i i	201300	
	200419		Ε	SCHEMATIC DIAGRAM	ı	U	JP	L M	A F	₹		35	03	62	J I	104000	
	+200419			SCHEMATIC DIAGRAM	L	U	JP		A F		13	35	93		ŭ l	104200	4200581
	200419			SCHEMATIC DIAGRAM	ĺ	Ü	JP			₹ [			3 1		Ĵ	104800	4200581
	200419			SCHEMATIC DIAGRAM SCHEMATIC DIAGRAM	<u> </u>	U	JP					35 (	33	62	J	105400	
	200419			SCHEMATIC DIAGRAM	1	U	JPI				13		3 [		J	106000	4200628
+	200419		= +	SCHEMATIC DIAGRAM	├-	U	JPI						23 10			106400	
	200578			TB1 PYROTECHNIC CONT	İ	U	JPI						3		J	106700	+200649
	200579		В	CB2 PC PYROTECHNIC		U	JPI							52	J .	104300	
4	200580	- 1	В	PYROTECHNIC CONT 8A1		U	JPI						1 6		J	104400	+200582
	200581		4	CB1 ASSY PYROTECHNIC	-	U	JPI							2		103500 4	
4	200582	- 1		CB2 PYROTECHNIC CONT		u	JP	1					$1 \mid \epsilon$		ا د	104100 4	200580
4	200582 P		Ā	PYROTECHNIC CONT CB2		U	JPL			-				2	<u> </u>	104500 4	200580
4	200584	_ [		BLOCK RELAY PYROTECH		U	JPL JPL				1 -		14 6		J	105000 4	200582
4	200585	- 1	3	SUBCHASS PYRO CONT	-		JPL			_				1	<u> </u>	105100 4	200580
4	200617	- 17	1	TB3 PYROTECHNIC CONT		- 1	JPL	1					4 6		J	105200 4	200580
4	200618	- [	1	B3 ASSY PYROTECHNIC	$\dashv$					-				2	_J	105500 4	200618
4	200619		1	IBS PYROTECHNIC CONT	- 1		JPL JPL			1			1 6		J	105300 4	200580
NO	TES CHANGE TO P	EVIOU		The Court of Court	_	v I	JPL	MA	R		13	5 1	2 6	1 !	J	105700 4	200580

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				MARINER R	. 6	2	NUME	RICAL	- D1 L	) L V				L		ı
DR	AWING	LI	5 T					•	70#	1	27:1166	DHAWING		MEXT	1 1	ı
		9411	7.1	7171.6	1	3	CODE	9400	4 1758	417.	DATE	CONTROL		HEXT ASSEMBLY	1	ı
	DRAWING NO.	BO.	1:		ū			BERIAL	THEF SEE.		H0. 11	J J	106100	4200628	_	1
c	4200627		A	TB4 PYROTECHNIC CONT		J	JPL	MA R	ļ	35	01 62			4200580	ļ	ı
	4200628		A	CB4 ASSY PYROTECHNIC		Ç	JPL	MA R		35	01 62			4200637	+-	1
	4200636			TB6 PYROTECHNIC CONT		U	JPL	MA R		35	01 62	J <sub>.</sub>	106300	4200580	1	1
ľč	4200637	i		CB6 ASSY	_	U	JPL	MA R	ļ	35	01 62		1077000	4900501	+-	1
È	4200642		A	COVER ALIGNMENT	*	U	JPL	MA R	ŀ	35	12 62	J		4200820	1	L
	4200643		n	LATCHING COLLAR		U	JPL	MA R	L	35	05 62			4200649		1
Ş	4200648		$\vdash$	TERMINAL BOARD 7	T	U	JPL	MA R		35	04 62	J		4200580		ł
Ç	4200649			CB #1 PYROTECH CONT	1	ļψ	JPL	MA R		35	04 62	J				1
0		<u> </u>		SPACER PYROTECHNIC		ĺΰ	JPL	MA R	T	35	04 62	J		4200580		1
8	4200655	1	1	ARMING SWITCH ASSY		Ιū	JPL	MA R	l	35	05 62			4100310		┨
Ç	4200820	ļ.—	┼	LANYARD ARMING SW	1	ΙŪ		MA R	T	35	05 62	J	047000			ı
ļΒ	4200821	1	١.		ı	Ĭŭ	1	MA R	1	35	01 62			4900501		4
	4300187	↓	5	TRANSPONDER 2A1	+	Ιŭ	_	MA R		3.5	01 62	J	121700			١
1	4300188	i	C	TRANSPONDER 2A2	1	ľ		MA R		3.5	11 62	J		4900501		4
Į D		L	A	FILTER SUBASSY 2A9	*	ťΰ		MA R		35		J	131000	4900501		١
D	4300204	1	C	AUTO PILOT 7A4 SUBAY		ľű		MA R		35		l	132000	4900501		_1
D	4300205	1	C	ANTENNA & SERVO 7A13	+	뚠	<del></del>	MA R		35		J	143406			١
D	4400000		1	SUBCHASSIS	1.			MA A		35		ز	134400	4400011	4	_
В	4400009		1	INDUCTOR	+	L		MA B		35		1	135000	4400013	3	- 1
TC	4400014		1	CHASSIS		ļ		MA F		35			136000	14400018	<u>1</u>	
l٥	4400017	1	ΙE	400 CY PWR SUP SCHEM	+	4				35		J	136700	4400026	اذ	Į
Б	4400017	1	Ε	400 CY PWR SUP SCHEM		ļ				35			137200			_
٥	4400017	l _	lΕ	400 CY PWR SUP SCHEM	4-	4				135			137600	4400077	7	ı
D	4400017		E	400 CY PWR SUP SCHEM	1	Ų				3.5				4400093		
lo	4400017	1	Ε	400 CY PWR SUP SCHEM	4	1				- 35			138200			
10	4400017	1	Ε	400 CY PWR SUP SCHEM	١.	Į			·	3.5		ر	136100		вl	
Ā	4400018	PI	1	PARTS LIST	┸	1							13590			_
F	4400018		E	400 CPS PWR AMP 4A8	ı	Įι			3	3 5				440001		
٦	4400019		E	SUBCHASS ASSY POWER	1		J JPL			_ 3:			13620			_
Hě			+	TRANSISTOR SUBASSY 1	.	- 1	JPL	- 1	3	3 5				440001		
16			A	TRANSISTOR SUBASSY_1	1	_	J JPI		Ř.	- 3			13690	0 440001	ā	_
H			-	INSULATOR POWER SUPE	1	- [1	J   JPI	- 1	P	3		. 1 -		0 440001		
13			1	INSULATOR PWR SUPPLY	4	_	U JPI		R	- 3				0 440001		_
H			-†-	CB1 PWR SUPPLY	T		u JP¦	- 1	R	3				0 440002		
4 -	4400029		1	CB1 400 CYCLE PWR	1	_	عار ن		R	_   3				0 440002		-
	440002		-+	TRANSISTOR SUPPORT	Т	T	U JP		R	3				0 490050		
	440003		١ı		ï		U JP		R	_ 3			13340	0 440003	-+	
_	1 440003		+	PCB		1	UJP	_	R	3				0 440004		
			1	XEORMER	-1	- 1	U JP		R	_ 3						-
	B 440004		+	XFORMER	_		UJP	-	R		5 05 6		18660			
- 1	1440006		- 1.	PC CB5	- 1	١	U JP	_ <u> MA</u>	R	3	<u>519716</u>		18860	0 440006		61
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Ι,	RAWING NO.	***	1 5	TITLE		CLASS	CODE	100	****	1 +44 561			[ is 1.	STATUS		ASSEMBLY	¥.
12	400077		A	CB2 PWR SUPPLY		U	JPL	AM			35			١	137500	4400018 4400029	
	400078		1	CBI PWR SUPPLY		J.	JPL	MA			35		61			4400027	
	400079		A	CB1 PWR SUPPLY		U	JPL	MΑ				9.0		J		4400089	
	400090			PRINTED CIRCUITRY CB		Ų	JPL	MA			35		+			4400018	
	400093			CB3 PWR SUPPLY		U.	JPL	MA	R				61	J.		4400204	
	400127		Ìc	CHASSIS POWER	*	U	JPL						62	<u> </u>		4900501	
	400200		ΙŘ	BATTERY CHASSIS 4A14		U	JPL				35	12	61	J		4900501	
	400204		A	CHASSIS POWER ASSY		Ü	JPL				30	0 }	162			4200049	
	500045		Ā	SCHEMATIC		ŢŪ	JPL				35	05	61	J,		4900501	
	+500121		C	CHASSIS ASSY DATA	1	10	JPL				35		62		059600		
	+500122		Ā	ACTUATOR ASSEMBLY		U	JPL	. MA	R		35	03	62	J		4500122	
	4500123		1	HOUSING ACTUATOR	l	U	JPL				35		62	J		4500122	
	4500124		A	COVER ACTUATOR	*	U	JPL		R		3.5		62	J			
- 1	4500124		1	PLATE A MOUNTING	1	lυ	JPI	MΑ	R			101	62	J		4500122	
	4500126	-	+-	PLATE B MOUNTING	Τ	IJ	JPL	. MA	R		35	01	62	J		4500122	
	4500120			SHAFT C ACTUATOR	١	U	JPI	MA.	R		35	01		J		450012.	
	4500127	-	+	SHAFT D ACTUATOR	✝	ĪŪ	JPI	MA.	R		35	01	6.2	J		450012	
- 1			1	SHAFT F ACTUATOR	1	Ιu	JPI	_ M A	R		3.5	0.1		J	060500	450012	<u>{</u>
	4500129 4500130	-	+-	SHAFT G ACTUATOR	T	U	JPI	- MA	R		35	0.1		J		450012	
	4500130		ì	FLEX JOINT		ļυ	JP	_ MA	R	l	35	01		<u> </u>		450012	
	4500131		A		1	ĺυ	JP.	MA	R	1	35	j04	62	J		450012	
		i	1^	HOUSING SWIVEL JOINT	1	Ιυ	JP	L M	A R		35	2.0	6.2	J.		450014	
	4500133	ļ	+-	MOUNT SWIVEL JOINT	+-	Τū	JP	L M	A R	Ī	3.5	102	62	J	062400		
	4500134	1		COUPLING ACTUATOR	1	Ιŭ		L M	A R		35	0 1	162	J		450012	
	4500137	<b>_</b>	+	SPACER FLEX JOINT	+-	Ť	I JP	M.	A R		35	Tol	62	J		450012	
	4500138	ļ	1	POTENTIOMETER	1	li.	1 -	L M	A A	i	35	0.1	62	J		450012	
	4500139	↓	-	BOLT SWIVEL JOINT	十	Ť			A R	1	35	0.2	62	J		450014	
	4500141		1		1	l.	1 -		ΔR	1	135	102	2 62	J		480040	
	4500142		1	SWIVEL JOINT ASSY	+	- `		- + -		-	135			J		450012	
	4500143		A		1	1		- 1			35	la:	1 162	J J		450012	
	4500144			SPLINE CLUTCH	+	+	JP			+	3-			J		450012	
В	4500145	1	-	GEAR BEVEL CLUTCH	-	T,		- 1		1	35	1 -		l J	061500	450012	2
в	4500146		-1.	SPACER CLUTCH	+	+		_			- 135			j		450012	
В	4500147		- [	HUB CLUTCH		- 1	JJP	- [			135	1 -		J		450012	
	4500148			FACING CLUTCH	+	<del></del>		LIM			- + 3 -			J		450012	
	4500149			GEAR HEAD	1	- 1	JJF	- 1		1	135		3 62	ز		450012	
В	4500150	1	Ц.	TB1 ACTUATOR	+		1				- 3		3 62	J	062000	450012	2 2
В	4500151		-1	TB2 ACTUATOR	. 1		- 1	_		1	3		2 162	J	14421	450012	2 1
J	4500152	1_		A SHIELD . CHASSIS AS	1						3		2 62		14500	490050	٥Ī
Ĵ	4500153	T	Ţ	TOP SHIELD ASSY 3	- [		J   را ۱۲. ا	- 1	A F		3		0 61	1 1		460033	39

וכ	RAWING	i LT	S.T	CALIFORNIA IN MARINER	ISTIT R	6 2	OF TE	CHNO ER I	CAL	r, pasad L BY (	ENA, (	CALIF.		PAGE	65	4-12-6	
i	DRAWING NO.	\$418 80.	::		1	i	AL MBOB		MAJO	11114	BESP.			DRAWING CONTROL	<del> </del>	NEXT	<u>-</u>
В	4500154		✝╌	WASHER	+	Ιů	JPL	MA	R	THRU SER.	35	12	61	STATUS	199800	1	4
В	4500154		i	WASHER	1	Ιŭ	JPL	MA			35	12	61	J		4800406	
)	4600001		В	HOUSING ASSY	1	ŭ	JPL	MA			35	09	62	<u> </u>		4901001	
Ξ_	4600004			COVER CATHODE SECT	1	Ιū	JPL	MA			35	-	61	J		4600001	
	4600005		Α	COVER PLATE SECT	1-	ĬŬ	JPL	MA			35	03	61				_
	4600006		Α	SHIELD CATHODE SECT	ı	Ιŭ	JPL	MA			35	07	61	J		4600001	
	4600007		Α	SHIELD PLATE SECT	+-	ιŭ	JPL	MA			35	07	61			4600001	-
J	4600008			XPONDER CAVITIES 2A3	1	Ιŭ	JPL	MA			35	12	61	ال		4600001	
3	4600012			TERMINAL	1	Ιŭ	JPL	MA			35	04	61	<u> </u>		3172189	
;	4600013		A	TERMINAL		Ιŭ	JPL	MA			35	- 1	61	J		4600008	
	4600014		Α.	TERMINAL INSULATOR	-	Ŭ	JPL	MA	_			04	_	_ <u>J</u>		4600008	-
ı	4600015			GROUND PLATE		Ιŭ	JPL	MA				04	62	J		4600008	
	4600017			B ROD INSULATOR	-	Ιŭ	JPL	MA			35		61	- <del></del>		4600008	_
	4600018			B ROD INSULATOR		Ĭŭ.	JPL	MA	R		1	- 1	- 1	J.		4600008	
	4600019			B ROD	+-	ŭ	JPL	MA	R			04	61	<u> </u>		4600008	4
1	4600020			OUTPUT PROBE	l.	ŭ	JPL	MA	R	- 1			61	J		4600008	
	4600021			F-2 PLATE INSULATOR	$\vdash$	ŭ	JPL	MA	R				61	. J		4600008	
	4600022			F-1 PLATE INSULATOR		U	JPL	MA	R	i		٠.	61	J		4600008	I
	4600023	_	$\dashv$	K-PLATE INSULATOR	-	U	JPL	MA					61	<u> </u>		4600008	4
	4600024			B ROD		0	JPL	MA	Ŕ			04		J		4600008	I
	4600025		7	INSULATOR	-	U	JPL	MA	R			04				4600008	ł
	4600026		Ì	B ROD SLEEVING		U	JPL	MA	R			04	1	i i		4600008	Į
	4600027			TUNING PROBE	Н	ŭ		MA	R				61	<u> </u>		4600008	ļ
ı	4600028			CATHODE TAP FEMALE		ŭ	JPL	MA	R			04		J		4600008	
1	4600029			F 2 PLATE	Н	ŭ	JPL	MA	R							4600008	1
	4600030		A	K-PLATE	l	ŭ		MA				04	-	J		4600008	
	4600031		_	F-1 PLATE	$\vdash$	씱	JPL	MA	R				62	<u>J</u>		4600008	l
	4600032	ŀ		CATHODE TAP MALE		ŭ	JPL	MA				09		J		4600008	ı
	4600033	-		LINE PLATE INSULATOR	$\dashv$	U	JPL	MA	R				61			4600008	l
	4600034			GROUND PLATE INSERT	l	- 1						- :	61	J		4600008	ĺ
	4600035			F-2 INSERT	$\dashv$	<u>u</u>	JPL	MA	R				61	_J		4600008	ļ
	4600036			K PLATE INSERT		U		MA	R				61	J		4600008	l
	4600037	Ť		SCREW INSULATOR	+	Ų.		MA	R				61	J		4600008	L
	4600038			LINE PLATE INSULATOR		- 1		MΑ	R				61	J	081400	4600008	
	4600039			LINE PLATE	+	U		MA MA	R				61	_J		4600008	Į.
	4600040	ļ	- 1	GROUND PLATE	- 1	ŭl	JPL		R R				61	J		4600008	
	4600041			THERMAL COMPENSATOR				MA	R R			04		J	081700		
	4600042	- 1			. 1		1		., 1			9		J	081800		
	4600043			TUNING PROBE THERMAL	_			MA	R				62	J	081900		_
	4600044							MA	R			9		ا ر	082000		
_	OTES CHANGE TO				*	υį	JPL	MA	R	- 13	35 le	19 [	62	J	0821001	4600041	

) F	RAWING	L1	S T	CALIFORNIA IN MARINER										PAGE	66	4-12-6
Ē	DRAWING NO.	MG.	: 5	1		CARIS	C00E			16 FCR 1764 THEV 869.	RESP.	***	1414	DRAWING CONTROL STATUS		NETT ASSEMBLY
В	4600045		A	TUNING PROBE INSULTR	*	U	JPL	MA	R		35	09	62		082200	4600041
	4600046		A	RETAINING PIN	*	U	JPL	MA	R		35	09	62	Ĵ	082300	
D	4600073		В	HOUSING CATHODE SECT	1	U	JPL	MA	R		35	10	61	J		4600001
0	4600074		В	HOUSING PLATE SECT	L	U	JPL	MA	R		35	01	62	J		4600001
	4600161		ĺ	TRANSDUCER	П	U	JPL	MA	R		35	09	61	j		4400204
	4600161			TRANSDUCER		U	JPL	MA	R		35	09	61	J		4500121
	4600161			TRANSDUCER		U	JPL	MA	R		35	09	61	J		4600333
-	4600161		L	TRANSDUCER		U	JPL	MA	R		35	09	61	J		4800261
	4600161			TRANSDUCER	Г	Ü	JPL	MA	R		35	09	61	J		4900502
_	4600177		L	SURFACE TEMPERATURE	ł	U	JPL	MA	R		35	09	61	J		4100407
	4600308		D	COMMD TR CONT 3A3	*	U	JPL	MA	R			12	62	J		4900501
	4600309		D	COMMD DECT B CON 3A2	*	U	JPL	MA	R		35	12	62	Ĵ		4900501
	4600310		D	COMMD DECOD 3A4	*	U	JPL	MA	R		35	12	62	<del>- j</del> -		4900501
)	4600311		D	COMMAND DETECTOR 3A1	*	U	JPL	MA	R		35		62	Ĵ		4900501
_	4600313		В	CIRC & PWR MON 2A6	1	U	JPL	MA	R	-			61	J		4900501
1	4600322		В	ANAL-DIG CONVTR 6MT1	1	Ιŭ	JPL	MA	R				61	Ĵ		4900501
_	4600323		В	LO LEVEL COMPAR 6A1	<del> </del> -	ū	JPL	MA	R				61	<del></del>		
	4600324		Di	COMMUTATOR DECKS 6K2	*	Ü	JPL	МА	R		1		63	J		4900501
1	4600325		О	DECKS 0 1 263 6K1	*	ŭ	JPL	MA	R				63	<del>- J</del>		4900501
1	4600326			BLIP REGISTERS 6MT4	ľ	lu :	JPL	МА	R		35		61	J		4900501
1	4600327		в	TRANSFER REGIST 6MT3	$\vdash$	ŭ	JPL	MA	R				61	J		4900501
ı	4600328			PN GENERATOR 6MT2	ı	ŭ		MA	R		1		61	- 1		4900501
7	4600329			ENCODER TR 6TR1	$\vdash$	ŭ		MA	<del> </del>	$\overline{}$					179400	
- (	4600330		٦	TEE CONNECTOR	1	l i	~ - 1	MA	R				61	J.		4900501
	4600331		$\vdash$	STRAP	-	U		MA	$\rightarrow$				61	J		3172189
t	4700213		Δ .	SERVO ASSEMBLY		U		MA	R			:	61	J		3172189
	4700332			SPIDER TANK NITRO	*	_			R		$\rightarrow$		62	J	221000	
- 1	4800040				*	U	1	MA	R		- 1	(	63	J		4700304
_	4800040		_	SUBCHASSIS XPONDER		U		MA	R				61	J		4300187
	4800076	ĺ		SUBCHASSIS XPONDER	١.	U	JPL	MA	8				61	J		4300188
-	4800078		-	ANGLE CONNECTOR	L.	U		MA	R				61	J	143600	4400204
- 1	4800078			CLAMP WIRE	*	U		MA	R			12	-	J		4400204
	4800078			CLAMP WIRE	*	Ų		MA	R				62	J	144500	
- 1			- 1	CLAMP WIRE	*	- 1	1	МΑ	R		- 1	1	62	J	182800	
-	4800078			CLAMP WIRE	*	Ų		MA	R		-		62	ال	199100	4800297
	4800078	i		CLAMP WIRE	*	U		МΑ	R				62	J	202600	
	4800078			CLAMP WIRE	*	u		MA	R				62	J	203600	4901002
- 1	4800080	- 1	- 1	CLAMP THERMOCOUPLE	*	U	1	MΑ	R			12	62	J	143800	4400204
-	4800080			CLAMP THERMOCOUPLE	*	Ų		MA	R		35	12	62	_J	144600	4500121
- 1	4800080	į		CLAMP THERMOCOUPLE	*			MΑ	R	Т	35	12	62	J		4600333
1	4800080		A	CLAMP THERMOCOUPLE	*	υl	JPL	MA	R	- 1	35	121	62	1 1		4800297

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				CALIFORNIA INS MARINER S							ALIF		PAGE	67	4-12-6	3
RAW	ING	L1	ST	, , , , , , , , , , , , , , , , , , ,		_	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									_
DRAWIS	16 NO.	PA E #	<b>5</b> 5	TITLE	Çx.		CODE		THE -	371P.	0+12 0+12		HAWING ONTHOL STATUS		NEXT ASSEMBLY	
4800	000		Ι.	CLAMP THERMOCOUPLE	*	υ	JPL	MA R		35	12 6	2	J	202700	4900502	I
4800	1		17	SPACER		Ü	JPL	MA R		35	08 5	2	<u>J</u>		4800290	4
4800			$\vdash$	WASHER SHOULDER		Ū	JPL	MA R		35	08 6	2	J	190500	4800290	
4800				WASHER	1	ŭ	JPL	MA R		35	08 6	2   _	J	190600	4800290	
4800			+	WASHER	t	ĬŪ	JPL	MA R		35	08 6	2	J	190700	4800290	
4800			В	SCHEMATIC SWEEP AMPL		lu.	JPL	MA R	1	35	05 6	2	j	197300	4800365	
			B	SCHEMATIC SWEEP AMPL	H	Ιū	JPL	MA R	+	35	05 6	2	J	197700	4800366	
4800			C	SCHEMATIC DIAG	ı	Ĭŭ	JPL	MA R	1	35	05 6	2	J	195900	4800263	
4800			Ħ	SCI PWR SW SUBASSY	*	Ü	JPL	MA H		35	09 6		J	188910	4800296	
4800						Ĭŭ	JPL	MA F	1	35		2	J	188912	4800252	
	252	PL.	F	SCI PWR SWITCHING	*	15	JPL	MA F			09 6		J	188914	4800252	
4800			H	SCI PWR SW SCHEMATIC		ľ	JPL	MA F		35		2	Ĭ		4800252	
4800			A	SUBCHASSIS	*	+×		MA F		135	+	2	J		4800252	
4800		ļ	C	PC CB1 SCI PWR SW	7	1	JPL			35	01 6	- 1	_		4800261	
4800				REED CAPACITOR	╀	ĮŲ.	JPL			35		52	J	189000	4800296	
4800	261		B	23A1 PLASMA ELECTRON	1	U	JPL	MA F					,		4800300	
4800	262			RADIOMETER CHASS ASY	┸	U	JPL	MA F		35	12 6		<u> </u>	<u> </u>	4800296	
4800	0263	1	TC	23A2 PROGRAM SUBASSY	ı	U	JPL	MA F		35		52	J	195500	4800257	
4800	0272		i .	COVER MAGNETOMETER	1	ĮŲ	JPL	MAF		35	-	2				-
480	0291		Α	20A21-20A24		U	JPL	MA F			12 6		J	198300	4800296	
4800	0293	1	Α	22A2/22A3 MAGNET ENV	L	Ų	JPL	MA F		35		11.	<u> </u>		4800296	
4800	0298	1	В	DATA CONDITION 20A25		U	JPL	MA I		35		51	-		4800296	
480	0314	1	1	ANGLE CONNECTOR	1	Ų	JPL		₹	135		51	J		4600333	
480	0326	1	Α	RISEB CLAMP WIRE NO2	<b>*</b>	U	JPL		₹	35		52	J		4800297	
	0340		1	SUBCHASSIS DATA COND	1	U	JPL	MA	? !	3.5	111 6	5 :	<u> </u>		4800298	
480		_	1-	SCHEMATIC DIAG	Т	U	JPL	MA	3	3.5		52	J	1	4800396	
480			1	SCHEMATIC DIAG	1	Ιυ	JPL	MA	₹	3.5	05 1	62].	ســــــ في		4800402	
	0345		В	7.	1	Tü	JPL	MA	₹	3.5	104	62	J		4800352	
480		ĺ	A	1	+	Ιυ	JPL	MA 3	i	3.5	109.14	62	· · · · · · · · · · · · · · · · · · ·		4800352	
	0375	+	+	ACTUATOR WIRING	T	iŪ	JPL	MA	₹ }	35	03 4	62 ;	J		4500122	
480		ł	1	22KMC SW ASSY ENV	ļ	U	JPL	MA	₹	35	06.0	62	<u>J</u>		4800300	
	0379	+-	+	15KMC SW ASSY ENV		Tu	JPL	MA	₹	3.5	06 !	62	j		4800300	
	0380		A	1	1.	, L	JPL	MA	۷ ا	3.5	09	62	J	068200	4600301	•
		-	- 12	DIRECTIONAL COUP ENV		Ĭ.	-+		7	35			J	068200	4800300	
	0382	١	1.			Ηĭ	1		R	35		62	- G	194400	480040	
	0402	TP.L	A	WASHER SHOULDER	+	-17			R	- 136		62	<u> </u>		480026	
	0405	1	1	RADIOMETER INSTALL	1	1			R	3 5		62	Ĵ		14100310	
	0408		4		+	17	-+		R	- 35		62			4800401	
	0409	1		SHIM SWIVEL JOINT		1			à l	136	1	52		071500	1	
	0410			SHIELD SUN ACTUATOR	+	-+-	JPI		3	135	1 - +	62 1	J	371700		
	0411		1	SPACER SUN SHIELD	1	1.	JEL		à .	36		62	1	194800		
480	0418	ك		TRANSFORMER SHIELD	┸	1	1 ( ) +' !	I I M	71	_12	1441	76.		17.000	JPL 0513 .L	

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## JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MAPTIMER R. 62 NIJMER [CAL BY 01V PAGE 06

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	DRAWING NO.		£4.	TITLE	1	3	*4 ×80 F	L.	PAJOR II		**	14.1411	CONTROL		MEXT ASSEMBLY	
		NO.	2.2		۲	+	JPL	MA	R	RE 11*	5 6	15 52	STATUS	195000	4800261	-†
1	4800477			TERMINAL BOARD	1	U	JPL		R	1 -	- 1	15 62	1	195200		
	4800477		1	TERMINAL BOARD	+	U		+				25 162 1	- <del>J</del>	195100		
	4800478		1	TERMINAL BOARD		10	JPL	MA	R			5 62	J		4800261	
	4800478		1	TERMINAL BOARD	╁	Ų.	JPL	MA	R		-+	55 162 1	J	195400	4800261	
	4800479		1	TERMINAL BOARD		U	JPL	MA	2			0/162	i j		4800492	
_	4800497		1	SCHEMATIC DIAGRAM	╀	ĮŲ.	JPL	MA	R		. 4.	06 152	<del></del>		4600329	
	4900033		l <sup>A</sup>	SUBCHASS MACHINED	1	10	JPL	1	R			1/61	j		4600308	
	4900039		┺	SUBCHASSIS MACHINED	+	빝	JAL	MA	R			0/161			4600309	
	4900039		1	SUBCHASSIS MACHINED		U	JPL	MA			- 1	0 / 61	J		4600310	
_	4900039		1-	SUBCHASSIS MACHINED	+	TU.	JPL	MA	-			0 6.	<u> </u>			
	4900039		1.	SUBCHASSIS MACHINED		1	JPL	MA				0 1 62 1	j.		4900225	
	4900229		A	2W1 COAX CABLE ASSY	+-	10	JPL	MA					<del>_</del>		4900225	
	4900230		A	2W2 COAX CABLE ASSY	1	10	10.0	MA	- 1			01 62	;		4900225	
	4900231		┸	COAX	4-	10	JPL	MA	<del>- R</del>   -			51 627	- <del>- '</del>		4900256	
Ī	4900232		ł	2W4 COAX CABLE ASSY		U	JPL	MA				0: 62	j		4900256	
	4900233			2W5 COAX CARLE ASSY	1	10	1 -	MΑ	3				_ <del></del>		4900256	
	4900234			2W6 COAX CABLE ASSY	1	ľ	JPL	1				~ - 1	_		4700302	
	4900236		_	9W10 INTERCONN SUBAY		U	JPL	MA				0.2 62	. j		4700302	
	4900237		T	9WIL INTERCONN SUBAY		U	JPL	MA	- 1			05 62	J		4700302	
	4900238		1_	9W12 INTERCONN	+	<u>   U</u>		MA				05 62			4800300	
	4900241			9W31 CABLE ASSY	ì	T٩	JPL	MA	1			03  62	· .		4800300	
ì	4900242		1	9W34 CABLE A	4-	ļυ	JPL	MA			+	23 62	. 🚣		4900247	
,	4900243		ļ	CABLE ASSY 9W32 COAX		1~	JPL	A M			47	11 62	j		4900247	
,	4900244			CABLE ASSY 9W33 COAX		JU		MA				를 사용하다.	- <del>- '</del>		4900247	
5	4900245		Ĺ	CABLE ASSY 9w35 COAX		1 "		M.A				1 : [62]	2		4900241	
J	4900249		$\perp$	WIRING SOL PAN 4A12	1*	1≃					<u> </u>	10 62			14900256	
J	4900252			9W1 CABLE INSTE	1*	1	1 ~ ~	MA			.		J		4900252	
ı	4900253	L.		9W1 RING HARNESS	_ *	- 10	JPL	MA			24	11 62	·		-	-
)	4900255			WIRING HARNESS 9W21	*	- 1		MA		i.	11	11 [62	J	075800	4900256	
	4900258	L	A	WIRING HARNESS 9W2	1:	-14					٤	1104	<u> </u>			
J	4900259	l	İ	WIRING HARNESS 9W3	1,	- 1 -	1	MA			٥. ا	11  07	ز		4900256	
ŀ	4900260		. 1 _	SPACECRAFT CABLING		-1~	JPL	MA.				11 10%	J		4900256	
į	4900261	Γ		WIRING HARNESS 9W4	*	١ ا	1		- 1	1	<b>1</b>	100	J		4900256	
į	4900262	1		9W5 WIRING HARNESS	1	ļŲ	JPL		+-		35 J				4790256	
j	4900263			WIRING HARNESS 9W6	1	10					45	11 /52	J		4900256	
J	4900264	l		WIRING HARNESS 9W7		١ ا					351	11 62	ــــــــــــــــــــــــــــــــــــــ		14900256	
5	4900265		1	WIRING HARNESS 9W8	Ţ	- 1				i	10	11  62	ن		14900256	
J	4900266			WIRING HARNESS 9W9	1	• Ju					21;	11 [92	·		4900256	
ī	4900268	1	_   -	WIRING HARNESS 9W20	1	٠ ار	JP L	MA	R		35	11   62	~		4900256	
_	4900269	1	- !	WIRING HARNESS 9W22	- 1+	∗ Iլ	JPL	MA	L R	i	35 3	11 52	! J	[ 077000	149002 181 051	5

# DENOTES CHANGE TO PREVIOUS LIST

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•	DRAWING NO.	845#	3 5		1	į	1 ( 10 0 0 1		116 FOR	ICIP.	"		DRAWING CONTROL		NEXT ASSEMBLY	-
,		<b>10.</b>	10.2	l .	-		CORE	\$6 hite	THEO SEE.		₩0.	110	STATUS			-
	4900270		1	WIRING HARNESS 9W23	*	U	JPL	MA R		35	11	62	J	077100	4900256	
	4900271	ļ	1_	9W1 TB1 TB ASSEMBLY	*	Ų	JPL	MA R		35	11	62	J		4900252	_
•	4900272		1	9W40 WIRING HARNESS	*	U	JPL	MA R			11	62	J	075716	4900252	
	4900273		1_	WIRING HARNESS 9w14	*	U	JPL	MA R			11	62	ل		4900256	
	4900274		į .	WIRING HARNESS 9W24	*	υ	JPL.	MA R			11	62	J	077300	4900256	
,	4900276			S/C CABLING FLOW DGM	*	U	JPL	MA R		35	11	62	7			
	4900277			GROUNDING DGM	*	U	JPL	MA R	_	35			0			
)	4900299	L	18	ENVL 27A1 INFRA RED	*	U	JPL	MA R		35	09	62	J	0.71200	4800300	
J	4900300		A	TROUGH SECTION ASSY	*	U	JPL	MA R			12	62	J	075746	4900313	
L	4900300		Α	TROUGH SECTION ASSY	*	U	JPL	MA R		35	12	62	J	075760	4900314	
J	4900300		Α	TROUGH SECTION ASSY	*	Ū	JPL	MA R		35	12	62	J	075766	4900315	
J	4900300		A	TROUGH SECTION ASSY	*	Įų.	JPL	MA R		35	12	62	J		4900316	
	4900301		A	GUSSET TROUGH	*	Ū	JPL	MA R		35	12		7		4900311	
J	4900301		Α	GUSSET TROUGH	×	lυ	JPL	MA R		35	12	62	J	075740	4900312	
ī	4900301		A	GUSSET TROUGH	*	Ü	JPL	MA R		35		62	J		4900313	
	4900301		A	GUSSET TROUGH	<b> </b> *	Ιŭ.	JPL	MA R				62	Ū	075762	4900314	
-	4900301		Α	GUSSET TROUGH	*	Ü	JPL	MA R		35		62	Ĵ		4900315	
J	4900301		A	GUSSET TROUGH	*	ű.	JPL	MA R			12	62	Ĵ		4900316	
3	4900302		A	SHIM TROUGH HARNESS	*	Ų.	JPL	MA R		35		62	J	075722	4900318	
2	4900303		A	STIFFENER TROUGH	*	ΙŭΙ	JPL	MA R			12	62	, i		4900318	
3	4900304			HANGER TROUGH	Ι	Ū	JPL	MA R			01		J		4900318	
J	4900305		A	TROUGH SECTION ASSY	*	ŭ	JPL	MA R				62	1		4900318	
3	4900307			STRAP TROUGH HARNESS	$\vdash$	ŭ	JPL	MA R			_	62	J		4900318	
-	4900308		A	CONNECTE BEKT TROUGH	*	ŭ	JPL	MA R			01		J	075752	4900313	
-	4900308		Α	CONNECTR BRKT TROUGH	*	ŭ	JPL	MA R		35		63	<u> </u>		4900315	
3	4900309		A	TIE PLATE TROUGH	*	ŭ	JPL	MA R		35		62	ا ز		4900300	
-	4900310		Â	GUSSET TROUGH	*	ŭ	JPL	MA R		35		62	<u> </u>		4900300	
5	4900311		Â	TROUGH SECT ASY BAYE	*	U	JPL	MA R			12	62	ار		490030	
1	4900312		A	TROUGH SECTION ASSY	*	Ľ.	JPL	MA R				62	J	075736	4900305	
)	4900313		A	TROUGH SECT ASY BAYS	*	ŭ	JPL	MA R			12	62	j		4900305	
J	4900314		Â	TROUGH SECTION ASSY		IU.	JPL	MA R				62	<u></u>	075 /56		
	4900315		A	TROUGH SECT ASSY	*	1	JPL	MA R					-		4900305	
<u>;</u>	4900316		A	TROUGH SECTION ASSY	*	-×	JPL	MA R			10	62 62	J		4900305	
-	4900318		Â	IGUSSET TROUGH	*	U	JPL	MA R				62	j J		4900305	
-	4900319		A	GUSSET TROUGH	*	U.	JPL.	MA R				62	J		4900252	
-	4900320		Â	GUSSET TROUGH	*	u u	JPL	MA R	ĺ			62	j		4900313	
2	4900321		Â	CONNECTOR BRKT LEG A	*	U	JPL	MA R			12		<u> </u>			
-	4900322		A	I *	*	u	JPL	MA R					ا ،		4900256	
-	4900322		<b>A</b>	CONNECTOR BRKT LEG CI SUPT STRAP CABLE CLD	L	-		MA R			12	62		077500	4900256	
_	1		1		٦.	U	JPL				12	62	J	077510	4900256	
<u></u>	4900501		C	PACKAGING ASSEMBLY		UI	JPL	MA R		35	02	62	J	077600	4100310	1

F	AWING	LI	s t	. MARINER	?	52	MUM	ERI	CAL	. BY [	VΙ€			PAGE	70	4-12-6
	DRAWING NO.	BA1H BG	1 5	TITLE	4	ELAS.	7E NOOE		MAJO	51 PGR	P1 5P.	• 1	125 E	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	4900503		10.2	HINGE PIN	ڀ	₩-			1115	THIU 150.		HQ.	70			
	4900503		1		ł	U	JPL	MA			35		61	J	143900	4400204
,			1	HINGE PIN	<del> </del> —	U	JPL	MA			35		61	J		4500121
	4900503		1.	HINGE PIN	1	Ü	JPL	MA	R		35		61	J		4600333
)	4900503		<u> </u>	HINGE PIN		U	JPL	MA	R		35		61	J		4800297
,	4900503		1	HINGE PIN ELECT BOX	1	U	JPL	MA	R		35		61	J		4900502
	4900504		L	HINGE INSTALLATION	L.,	U	JPL	MA	R		35		61	J		4900502
	4900505		IA.	BRACKET DA-15 CONN	*	U	JPL	MΑ	R		35	12	62	J		490050-
j	4901001		В	SHIELD CHASS ASSY	*	U	JPL	MA	R		35	12	62	_ J	203200	4900502
-	4901002			SOLAR CELL ASSY		U	JPL	MA	χ		35	02	62	J	203500	4900502
:	4901003		İ	TERMINAL BD SOL CELL	ı	U	JPL	MA	R		35	02	62	J	203700	4901002
_			-			-							-			
	V100017			SCREW-MACHINE		U	RYN		R		35		62	J		V100050
Ц	V100017		L	SCREW-MACHINE ROUND	L	U	RYN	-	R		35		62	J		V100050
	V100050		D	SOLAR PANEL	ı	U		MA	R		35		62	J		4100306
	V100050		D	SOLAR PANEL	L	U	RYN		R		35	10	62	J	009500	4100306
	V100051		1 3	SPLICE STRIP CENTRAL	I	U	RYN	MΑ	R			04	62	J	006500	V100050
	V100051			SPLICE STRIP CENTRAL	L	U	RYN	MA	R		3.5	04	62	J	009700	V100050
	V100052		В	BUSHING	*	U	RYN	MA	R		35	01	63	J	006600	V100050
	V100052		8	BUSHING	*	U	RYN	MA	R		35	0.1	63	ن	009800	V100050
	V100053		П	DOUBLER ASSY		U	RYN	МΑ	R		35	04	62	J	006700	V100050
١	V100053		ΙI	DOUBLER ASSY	ľ	U	RYN	MA	R		35	04	62	ز	009900	V100050
	V100057	L. L.	Ε	BEAM ASSY	*	Ü	RYN	MA	R		35		63	Ĵ		V100050
	V100057		E	BEAM ASSY	*	Ú	RYN	MA	R		35	01	63	Ĵ		V100050
1	V100059		H	GUIDE RAMP SHROUD	-	ŭ		MA	R		35		62	<del></del>		V100050
	V100059			GUIDE RAMP SHROUD	İ	ŭ'		МА			35	04	62	-		V100050
	V100061		1	RAMP GUIDE SOLAR PAN	-	Ŭ.	RYN	MA	R		35	04	62			V100050
	V100061			RAMP GUIDE SOLAR PAL				MA	R		35		62	j		V100050
-	V100062	-		SOLAR PANEL	-		RYN	MA	R		35	10	62			4100525
									`				02		007100	
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#### JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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DRAWING LIST DRAWING NO. SATE 4 7174E C 3134311 218900 4700318

10	3134311	l i	- 1	NEEDLE	[			MΑ				124	, ,		4700310
C	3134311		В	NEEDLE	<u></u>	٥		MA		 38		59			4700322
C	3134311	į.	В	NEEDLE	l	U	JPL	МΑ				59	J		4700334
C	3134501		1	PLUG	١.	U		MΑ		 38	10	59	ز	219900	4700338
C	3134573			UNION	П	U	JPL	MΑ	R		06		J	212100	4700326
D	3137127		c	BODY VALVE ASSEMBLY	l	U		MA		 38	06	62	J	214400	4700325
7	3152162		Č	NEEDLE VALVE BLEED	*	Ū		МΑ		 38	10	62	ز	041410	4200592
D	3153000	1	c	ENGINE ROCKET ASSY		υ	JPL				0.7	51	J	207100	4700311
Ď	3153010		A	ENGINE WELDMENT	Ţ	U	JPL	MΑ	R		03		J	207200	3153000
IJ	3153011	1	c	INJECTOR ASSEMBLY	*	u		MA		 38	10	62		207300	3153010
В	3153012	1	В	CLOSURE		u	JPL				04		J		3153032
В	3153013		В	NOZZLE SPRAY PROPPL	L	Ų.		MA				61			3153032
В	3153014		٨	NOZZLE SPRAY OXIDZR	ĺ	U		MA			10		J		3153035
l c	3153015		D	SCREEN		υ		MA			12	61	<u></u>		3153019
C	3153015		О	SCREEN		V	JPL			38	12	61	J	208200	3153022
C	3153015			SCREEN		U		MA			12	61	J		3153026
C	3153015		D	SCREEN		U	JPL	MΑ	R	38		61	J	207500	3153030
D	3153016		D	DOME INJECTOR	L.	U		MA			05		J		3153032
	3153017		θ	SHELL	Γ	Ū		MA		38	05		J		3153034
عا	3153019			NOZZLE WELDMENT	L_	U		MA			0.5		J		3153033
	3153020			NOZZLE	1	U		MA			03		J		3153019
	3153021			ROD SUPPORT	L.	Ų	JPL				04				3153019
C	3153022			TUBE PROPELLANT	ĺ	U	JPL					60	j		3153032
C			A	TUBE SECTION FWD	_	U	JPL				0.4		<u> </u>		3153022
C			Α	TUBE FLANGE SECT		U	JPL			38		61	J		315302-
C				TUBE OXIDIZER WELD	_	نا	JPL				0.5		J		3153032
	3153027		Α	TUBE ÖXIDIZER SECTN		U	JPL					61	J		3153035
	3153028			TUBE OXIDIZER	L.	Ų	JPL				08		J		3153026
	3153029			FLANGE OXIDIZER BLNK	Į	U		MA			08		J		3153032
C	3153030			INJECTOR WELDMENT	<u> </u>	U	JPL				0.3		J		3153011
C	3153031		В	INJECTOR COATED	1	U		MΑ				61	J		3153030
	3153032		Α	INJECTOR WELDMENT	1_	Ų	JPL			 38		61	J		3153031
[5	3153033		C	SHELL WELDMENT		U	JPL					61	J		3153010
	3153034		Α	SHELL COATED	1	U	JPL				10		J		3 د 31530
	3153035	l I		TUBE OXIDIZER SECTN		U	JPL					60	J		3153026
D	3157103			SUPPORT CONT ASSY	┶	U	JPL				09		J		4700310
्	3157116			ROD SUPPORT	1	U		МΔ		38		61	J		3157117
D			A	SUPPORT CONT WELDMNT	┖	U	JPL			 38	0.5		<u></u>		3157103
D	3157118		A	FORWARD RING		U	JPL				0.5		J		3157117
C	3157119			SPIDER TANK NITROGEN		ΙU	JPL	MA	R	 138	109	60	ال ا	215300	4700332

### JET PROPULSION LABORATORY

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72 DRAWING LIST U JPL MA R DRAWING CONTROL STATUS # # TENNOT DRAWING NO. BASH 38 06 61 A STRUT CONT SUPPORT STRUT WELDMENT TONGUE BLANK D 3157132 C 3157133 C 3157134 C 3157135 3157132 3157133 4700310 210600 j 210700 38 05 61 38 05 61 38 05 61 38 05 61 38 06 61 38 06 61 38 11 61 38 09 61 38 09 60 U JPL MA R U JPL MA R 210800 3157133 210800 3157133 210900 3157133 211000 3157133 210500 3157117 211100 4700310 220000 4700338 218200 4700320 206900 4700305 CLEVIS BLANK U JPL MA R
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U JPL MA R B 3157136 D 3157137 TUBE ANGLE RING B 3157138 C 3157508 C 3157522 B 3157523 PLUG A RING LOCK GASKET A BLADDER J 3157526 C 3157539 C 3157540 D 3157544 J 3157544 U JPL MA R U JPL MA R U JPL MA R U JPL MA R 218400 4700319 215800 4700335 217800 4700321 216400 4700333 38 04 61 38 11 60 B GAUGE VISUAL A GAUGE VISUAL PRESSUR 38 0 38 10 61 38 10 61 38 01 62 В BODY U JPL MA R U JPL MA R 220100 4700338 215900 4700335 A D REGULATOR PNEV PRESS 3157546 GAUGE VISUAL PRESS XDUCER PRESSURE TRANSDUCER PRESSURE U JPL MA R U JPL MA R U JPL MA R 3157547 38 C9 60 38 C7 61 38 07 61 212200 4700326 216000 4700335 3157548 3157549 217900 4700321 212300 4700326 U JPL MA R U JPL MA R U JPL MA R U JPL MA R U JPL MA C U JPL MA R 3157550 3157552 CAP VALVE 38 07 61 213600 4700322 213700 4700322 CAP FILL
SLEEVE FITTING
A DIAPHRAGM BURST 3157553 3157554 3157558 3157560 38 09 60 38 09 60 0000 212700 4700307 212400 4700326 36 07 61 36 09 60 36 09 60 36 09 60 U JPL MA R 213600 4700322 217100 4700334 214000 3157565 TUBE A FITTING GASKET J 3157562 B 3157563 B 3157563 JPL MA R <u>∠17300</u> 315<u>7565</u> 219100 315<u>7565</u> 214100 315<u>7565</u> 217400 315<u>7565</u> JPL MA R <u>38 09 00</u> GASKET B 3157563 C 3157564 C 3157564 U JPL MA R U JPL MA R GASKET 38 09 60 00 90 86 00 90 88 CAP U JPL MA R
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CAP NEEDLE ASSY
BAFFLE
A RING FILIER BACKUP
A RING SERVO MOUNT
B INSULATOR SHEET 36 09 60 38 07 61 38 07 61 38 09 60 217200 4700334 219300 4700318 216100 4700335 220800 4700343 U JPL MA R U JPL MA R 38 05 51 38 09 00 220900 4700343 221100 4700213 C 3157812 A SERVO

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R	AWING	LI	ST	17777721	` '	_				41 101			144		, , ,	7 12 0	_
Ē	DRAWING NO.	9156 40.	15	TITLE	ŧ	3	16 ×901	-		54 708 1 (TEW THEU SEG.	82 17. 317.		74.	CONTROL STATUS		NEXT ASSEMBLY	
3	3157813			SCREW SET	Γ	U	JPL	MA			38		60	J	221200	4700213	
_	3157816		L.	SHIELD THERMAL	1_	U	JPL	MA			38	06	61	<u> </u>		4700301	
	3177120		A.	STUD SLOTTED		U	JPL	MA	R		38		61	J		4700332	
	4201044			BUSHING BOTTLE BRCKT		U	JPL	MA	R		38	10	62	J		4200588	
	4700188		Α.	VANE	*	Ü	JPL	MA	R		38	09	62	J		4700213	
	4700300		1_	UNIT MIDCOURSE PROP		U	JPL	MA	R		38		62	J		4100309	
П	4700301			UNIT MIDCOURSE PROP	I	Ü	JPL	MA					62	J	205800	4700300	
	4700303		Ĺ	FUEL SYS INSTALLATION		U	JPL	MA	R		38	0.2	62	J	206300	4700302	
П	4700304			NITROGEN SYS MIDCOUR	1	U	JPL	MA	R		38		62	J	206400	4700303	
	4700305		L	START SYS MIDCOURSE	L	U.	JPL.	MA	R		38	0.2	62	J	206700	4700304	
	4700306			TUBE RESERVOIR OXID		U	JPL	MA	R		38	09	61	J	212800	4700307	
	4700307		Α	RESERVOIR OXIDIZER	L	Ιù	JPL	MA	R		38	0.2	62	J		4700326	
	4700308		П	PLATE MOUNTING	Γ	u	JPL	MA	_		38		61	J		4700312	
П	4700309			BRACKET MTG MCPU	ı	ŭ	JPL	MA	R		38	10	61	.i		4100501	
7	4700310		1	STRUCTURE ASSEMBLY	$\vdash$	ŭ	JPL	MA				02	62	J		4700311	
	4700311		1	ENG MIDCOURSE PROPUL		Ιŭ	JPL	MA			38		62	j		4700305	
	4700312		Δ	PLATE MOUNTING ASSY		ŭ	JPL	MΑ	R			10		J		4700310	
	4700313		l'`	BRACKET CONN ELEC	1	lй	JPL	MA			38		61	Ĵ		4700310	
Н	4700314	-		BRACKET CONN ELEC	1-	ŭ	JPL	MA	Ŕ		_	_	61	J		4700310	
	4700315		П	BRACKET TANK FUEL	ı	l.	JPL	MA	R			10	61	,		4.700310	
	4700317		t	BODY MANIFOLD TANK	$\vdash$	U	JPL	MA					61		219400	4700318	
í	4700318		П	MANIFOLD TANK FUEL	ı	li.	JPL	MA			38		62	.)			
_	4700319		Н	BLADDER TANK FUEL	H	Ü	JPI	MA					62	J	218300	4700320	
	4700320			TANK FUEL ASSEMBLY	ı	lu.	JPL	MA			38					4700320	
	4700321		⊦−	FUEL SYSTEM ASSEMBLY		Ü	JPL	MA	R				62	J			
						Ι-				- 1			62	J.		4700303	
	4700322		-	RESERVOIR GN2 WELDMT	├	U.	JPL	MA	R				62			4700323	
	4700323		Α.	RESERVOIR GN2 IGNITA		U	JPL	MA	R			02		J		4700326	
	4700324		$\vdash$	PRIMER CHAMBER ASSY	ļ	U	JPL	MA	R				62			4700325	
	4700324			PRIMER CHAMBER ASSY	ĺ	U	JPL	MΑ	R				62	J		4700333	
	4700324		Ш	PRIMER CHAMBER ASSY	_	U	JPL	МΑ	R				62	<u>J</u>		4700338	
- 1	4700325		Α	VALVE EXPLOSIVE ASSY		U	JPL	MA	R			06	62	J		4700326	
	4700326		Α	CARTRIDGE OXIDIZER		U	JPL	MA	Ŕ		38	06	62			4700305	
	4700327			BLOCK PILLOW		U	JPL	MA	2				62	J		4700305	
	4700328		Ш	BRACKET		U	JPL	MA	R		38	02	62			4700305	
	4700329		1 1	SPACER TUBE		U	JPL	MA	-R				62	J	215000	4700305	
:	4700330		1	BRACKET TUBE	ĺ	U	JPL	MA	R		38	02	62	J	215100	4700305	
7	4700333			VALVE 2WAY NITROGEN		Ū	JPL	MA	R	- "	38	02	62	J	216200	4700335	
	4700334		L	FITTING NITROGEN THE	L	U	JPL	MA	R		38	02	62	J	216600	4700335	
П	4700335		П	NITROGEN SYSTEM ASSY		U	JPL	MA	R		38	02	62	J	215500	4700304	
Н	4700336		1	SHELL TANK NITROGEN	ı	u	JPL	МΔ	R		38		62		217500		

	JET PROPULSION LABORATORY			
	CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.			DATE LISTED
DRAWING LIST	MARINER R 62 NUMERICAL BY DIV	PAGE	74	4-12-63

	DRAWING NO.		43	TITLE		;	74		BAIGE	1760	1017.	1 "	E 45 E	DRAWING CONTROL STATUS		NEXT ASSEMBLY	į
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1	4700337		$\vdash$	SPACER REGULATOR	Н	υ	JPL				3.8	02		J	220300	4700303	1
	4700338		1	VALVE FUEL 2-WAY ASY			JPL	MA				02		lj		4700321	ı
	4700339			SHELL TANK PROPELLNT	-	ŭ	JPL	MA				02		Ĵ		4700320	t
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	4700343		1_	CONTROL SYS ASSEMBLY	L-	U	JPL					0.2		J		4700301	4
	4700344			MIDCOURSE PROPUL SYS	l	U	JPL					0.2		J		4700301	١
	4700346			SHIELD THRM LOW DISK			JPL					02		J		4700301	
٦	4700347		Α	FLANGE		U	JPL	MA	R		38	06	62	J	214700	4700326	1
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JPL TECHNICAL REPORT NO. 32-422, VOL. II-

C. Mariner R 1962 Drawing List: Offset (Generation Breakdown)

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15	TITLE		,		*	,	77	Als	REL. FO	& HIBBILE	WEXT	007.	REQUERCE
477	11164	L				<u> </u>		*11	SE MAL	7H 80, 3KB.	MEXT ASSEMBLY	COL	NUMBER
	SPACECRAFT ASSEMBLY	J4100305			I		i i		MA F	3		1	100
Ц	BOLT HEX HD		A 90286		L	<u> </u>			MA	2	4100309	2	200
	NUT HEX JAM	1	8 90394	i	į.	į	l i		MA F	ર્ય	4100309	2	300
7	SOL PAN PLUS X 4A11		J4100306		L				MA F	2	4100309	اعا	400
	SPACER	ł		B 90068		1	ļ		MA F	₹ .	4100306	3	500
Ц	SCREW INTERNAL WRNCH			A 90346					MA	2	4100306	13	600
В	ARACKET CONNECTOR			C3151049	1	Į.	l i		MA F	1	4100306	3	700
4	PLATE LATCH SOL PAN			B4100378		l			MA F	4	4100306	3	800
	ACTUATOR SWITCH			B4100441		ł			MA F	₹	4100306		900
4	GUIDE CABLE WELDMENT			C4100448					MA E	<b>.</b>	4100306	13	1000
П	SUPP&CABLE CLAMP ASY		[	C4100495					MA F	∛	4100306	3	1100
4	SUPP&CABLE CLAMP ASY		l		C4100449				MA		4100495		1200
1	CLAMP CABLE ASSY			l	C4100450	7			MA F	₹	4100495		1300
Ц	BRACKET DIODE			D4100498		Ĭ			MA F	3	4100306		1400
	SAIL ASSEMBLY PLUS X		i	C4100519					MA F	4	4100306		1500
	BRACKET SUN SENSOR			C4100520	1	Ī	L		MA F	₹	4100306		1600
	STANDOFF SOL SENSOR			B4100521					MAF	1 1	4100306		1700
- 1	SEC SUN SENSOR			D4200668			L		MA F	₹	4100306		1800
А	BRACKET SEC SUN SENS				04200669				MAF	·	4200668		1900
A	CELL ASSEMBLY E E				D4200671				MA F	`	4200668		2000
J	MASK		į.			D4200670	) k		MA F	'I I	4200671		2100
_9	TB SECONDARY SUN SEN		L		D4200672		1		MA F	1	4200668		2200
Ą	SUN SENSOR ASSEMBLY			C4200673	ĺ				MA F	1 1	4100306	3	2300
	COVER				B3152417				MA R	·	4200673		2400
3	TB SECOND SON SENSOR		I		C3152423		1 1		MA R		4200673	4	3100
4	HOUSING SUN SENSOR		l		D3152426		L		MA R	1	4200673	4	3200
3	CELL B E H&K CELLS				B3172586				MA F		4200673	4	3210
8	MASK SUN SENSOR					B3152424	4		MA R	8	3172586	5	3220
Н	CELL-FLAT D CELL				B3172588	3			MA R		4200673	4	3230
В	MASK FLAT SUN SENSOR			L	l	B3152425	ł I		MA R		3172588	5	3240
- 5	CELL C CELL ASSEMBLY				B3172590	7			MAR		4200673	4	3250
В	MASK SUN SENSOR 40				ł	B3152485	1 1		MA R		3172590	5	3260
В	ANTENNA DIPOLE			C4600076					MA R		4100306	3	3300
ı	WASHER REINFORCEMENT				C4600052	:			MA R		4600076	4	3400
A	BODY ASSEMBLY				C4600077				MA R		4600076	4	3500
Ą	BOARD CIRCUIT DI-PLE					C4600078	1 1		MA R		4600077	5	3510
$\neg$	ART WORK DI-POLE				,		D4600079		MAR		4600078	6	3520
	GUSSET					B4600087	11		MA R		4600077	5	3530
4	COLUMN					B4600088	[		MA R		4600077	5	3540
	CAP CENTER CONDUCTOR	'	1		B4600089		[		MAR		4600076	4	3600
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	TITLE	1			rv .	v	γı	VII	HEL. FOR	MISSILE	NEKT OFF	SEQUENCE
•••					1	1			STRIAL	THRU, SER.	ASSEMBLY CO.	
	PLATE REINFORCEMENT			C4600097	84600151	Į.	i	Ì	MA R MA R		4600076	
			1	C4500097	C4600052				MA R	ļ	4100306 3	3800
ı	WASHER REINFORCEMENT				B4600053				MA R		4600097 4	
4	CAP CENTER CONDUCTOR		ļ		B4600089				MA R		4600097 4	
۸	BODY ASSEMBLY				C4600098				MA R		4600097 4	
7	COLUMN TURNSTILE ANT		<del> </del>		C 40 00 0 70	B4600056			MAR		4600098	4300
	RIB LONG ELEMENT			1	1	B4600057			MA R		4600098	
-	RIB SHORT ELEMENT		<del> </del>	<del></del>	<b></b>	B4600058			MA R		4600098 5	4500
-	RING SUPPORT				l .	B4600059			MA R		4600098	
н	CONDUCTOR ASSY ANT		<del> </del>			C4600080			MA R		4600098	
5	BASE					L 1000000	k4600081	1	MA R		4600080 6	
A	BASE PLATE		<del> </del>	+	<del> </del>			84600082			4600081 7	4900
Α	CONDUCTOR			Ì				84600083			4600081 7	
A	BUSHING		+	1			ł	84600084			4600081 7	5100
A	CONNECTOR RF MOD						84600085		MA R		4600080 6	
H	CONDUCTOR CENTER		+	-	-		84600086		MA R		4600080 6	
В	CB COMMAND ANTENNA					C4600099			MA R		4600098 5	
A	PC TURNSTILE ANT		<del> </del>	+	<del></del>		14600060		MA R		4600099 6	
	CABLE INSTL 4A11			J4900225					MA R		4100306 3	
명	SCHEMATIC DIAG 4ATT		1	1	04900227		<u> </u>		MA R		4900225 4	5700
A	2W1 COAX CABLE ASSY			1	B4900229				MA R		4900225 4	5800
A	ZWZ COAX CABLE ASSY		1	1	B4900230				MAR		4900225 4	5900
	COAX			1	B4900231				MA R		4900225 4	6000
	WIRING 4ALL SUL PANL				J4900Z48		1		MAR		4900225 4	6100
	CD ANTENNA CPLR 2A15			6151002	<b>2</b>				MA R		4100306 3	6200
ч	SULAR PANEL		1	PAIGOOPE					MA R		4100306 3	6300
	SCREW-MACHINE			1	BV100017		1		MA R		V100050 4	6400
	SPLICE STRIP CENTRAL				CV100051		T		MÅ R		V100050 4	6500
В	BUSHING		1		BV100052		1		MA R		V100050 4	6600
	DOUBLER ASSY		Ì	1	DV100053				MA R		V100050 4	6700
티	92		1		DV100057		1		MA R		V100050 4	6800
7	GUIDE RAMP SHROUD		1		DV100059				MAR		V100050 4	6900
	RAMP GUIDE SOLAR PAN		1		DV100061	1	1	1 !	MA R		V100050 4	7000
ᄀ	JOEAN MILE A TALL		J410030			I			MAR		4100309 2	7100
-	SCREW SOCKET HD		1	A 90346		İ	1		MA R		4100306 3	
7	SCREW MACHINE			A 90348					MAR		4100306 3	
В	BRACKET CONNECTOR		1	C3151049					MA R		4100306 3	
	ACTUATOR SWITCH			B4100441			-		MA R		4100306 3	
- 1	BRACKET DIODE		1	D4100498	ĺ	1		1	MA R		4100306 3	7600

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	TITLE			111	17	٧	٧ı	YII	REL. FOR MISSILE	NEXT orr.	SEQUENCE NUMBER
-									SERIAL YMRB, SER.	ASSEMBLY COL.	
П	PLATE LATCH SOL PAN			B4100524					MA R	4100306 3	7700
I A	SOLAR PANEL EXTENSN					J4100525			MA R	4100306 5	7800
H	BRACKET CONNECTOR				C3151049		1		MA R	4100525 4	7900
4	SENSOR SUN				C3172585				MA R	4100525 4	8000
A	HOUSING SUN SENSOR					D3152416			MA R	3172584 5	8100
1	COVER					83152417			MA R	3172584 5	8200
14	CELL B E H&K CELLS					83172586			MA R	3172584 5	8300
14	MASK SUN SENSOR 15						83152424		MA R	3172586 6	8400
14	CELL I CELL ASSEMBLY					B3172587			MA R	3172584 5	8500
18	MASK SUN SENSOR 40						83152485		MA R	3172587 6	8600
13	CELL J CELL ASSEMBLY					83172589			MA R	3172584 5	8700
8	MASK SUN SENSOR 40						83152485		MA R	3172589 6	8800
I	TB SECOND SUN SENSOR					M3152423	1		MA R	3172584 5	8900
I A	HOUSING SUN SENSOR				M3152426				MA R	4200673 4	3200
П	BRACKET SENSOR				C4100430				MA R	4100525 4	9000
11	SOLAR PANEL	1		1	JV100062				MA R	4100525 4	9100
Н	CABLING -X AXIS 4AI2			J4900226					MAR -	4100306 3	9200
8	SCHEMATIC DIAG 4A12		i	1	D4900228				MA R	4900226 4	9300
$\vdash$	WIRING SOL PAN TAIZ				J4900249				MA R	4900226 4	9400
l q	SOLAR PANEL			JV100050				1	MA R	4100306 3	9500
	SCREW-MACHINE ROUND				BV100017				MA R	V100050 4	9600
	SPLICE STRIP CENTRAL		1	!	CV100051				MA R	V100050 4	9700
н	BUSHING			1	BV100052				MA R	V100050 4	9800
	DOUBLER ASSY			ļ	DV100053		l	ŀ	MA R	V100050 4	9900
E	BEAM ASSY		-		DV100057		1		MA R	V100050 4	10000
1	GUIDE RAMP SHROUD	1			DV100059				MA R	V100050 4	10100
$\vdash$	RAMP GUIDE SOLAR PNE				DV100061		1		MA R	V100050 4	10200
A	EQUIPMENT ASSEMBLY	1	J4100310	)					MA R	4100309 2	10300
Α	SCREW MACH SOCKET HE	X		A 90346		1		i	MA R	4100310 3	10400
1	SCREW MACH FLT HD	1	ı	A 90348		l	L		MA R	4100310 3	10500
	WASHER FLAT INSUL			B 90362			I		MA R	4100310 3	10600
1	WASHER SHOULDER INSU	1	İ	8 90398					MA R	4100310 3	
18	CAP ASSY	†	1	83151141					MA R	4100310 3	10900
8	BRACKET EL DISCONN		1	C3151194		ļ		1	MA R	4100310 3	11000
$\vdash$	COVER ASSY HOUSING			C3151960					MA R	4100310 3	11010
Ιe					03151959	1	1		MA R	3151960 4	11015
Ā	VALVE STEM	1	t	i	A4200028	1	1		MAR	3151960 4	11020
I A	STRUCTURE ASSEMBLY		1	J4100304		1			MA R	4100310 3	11100
A	SCREW MACH SOCKET HE	<b>k</b>	1		A 90346		1		MA R	4100304 4	11200
A	SCREW MACH 100 D	1			A 90348	1	1	I	MA R	4100304 4	11300
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_		 	I		1			REL. FC	N MISSILE		
::	TITLE	11	m	14	٧	¥í	414	BERIAL	THEY, SE B.	ASSEMBLY COL	SEQUENCE
-	WASHER FLAT	 	-	B 90362				MA	र	4100304 4	1140
ì	HEX STRUCTURE ASSY			U4100303		1		MA F	२	4100304 4	1150
$\dashv$	BOLT HEX HEAD	 	-		A 90286	<del>                                     </del>		MA	2	4100303 5	1160
A	SCREW MACH SOCKET HD				A 90346			MA I	۲!	4100303 5	1170
-	SCREW MACH	 <del></del>	<del> </del>		A 90348	t · · · · · · · · · · · · · · · · · · ·		MA	रो	4100303 5	1180
	HUCK RIVET INSTL	l			A 90410			MA	ર	4100303 5	1190
-	MTG LOC ALIGN DEVICE	 	-		03151183	<del>                                     </del>		MA	र	4100303 5	1200
	CLIP ELECT DISCONN				k3151193			MA	R	4100303 5	121
A	ANGLE INSIDE	 <del> </del>	<del>                                     </del>		C3151723	†		MA	R	4100303 5	1220
A	ANGLE FRAME	ŀ	l		K3151724			MA I	R	4100303 5	1230
A	BRACKET ACTUATOR	 1			C3151777	1		MA	R	4100303 5	1240
1	PIN LOCATING	Į.		1	84100049	4 !		MA I	R	4100303 5	
u	SUPPORT AGD SC MACH	 <del>                                     </del>	<del> </del>	1	U4100380			MA	R	4100303 5	
A	SUPPORT BEE SC MACH	1			U4100381			MA	R	4100303 5	1270
ď	SUPPORT A SC MACHING	 	<b>†</b>		U4100382			MA	R	4100303 5	128
1	SUPPORT ANT PIVOT			1	J4100384	4		MA I	R	4100303 5	129
-	SHIM	 	-			83151037		MA	R	4100384 6	
F	HOUSING GEAR ASSY			1		J3151118		MA	R	4100384 6	131
8	HOUSING COAX JT	 <del></del>	<del> </del>	_	<del> </del>	U3151781		MA	RT -	4100384 6	132
В	HOUSING GEAR ASSY		1			13151961		MA	R	4100384 6	133
<u> </u>	SUPPORT C SC MACHING	 	<del> </del>	<del></del>		J4100383		MA		4100384 6	
Α	FITTING			<b> </b>	C4100386			MA		4100303 5	
- 4	TUBE	 <del> </del>	<del> </del>		C4100387			MA.	R	4100303 5	
Δ	STIFFENER DIAGONAL				C4100388			MA		4100303 5	
7	BRKT ARMING SWITCH	 	<del> </del>		C4100389			MA		4100303 5	
Δ	BACKTIE	ł	1		04100390			MA		4100303 5	
Ä	TUBE STRUCT K BRACE	 <del> </del>	<del> </del>		B4100391				R	4100303 5	
Δ	END FITTING STRUCT K					B4100394		MA	R	4100391 6	
Δ	BRACKET K BRACE RH		+		04100392			MA	R	4100303 5	
A	BRACKET K BRACE LH		1	1	04100393			MA	R	4100303 5	
-8	FITTING TUBE	 <del>                                     </del>	+	- +	K4100395			MA	R	4100303 5	
Δ	BRACKET REF PLATE	1	1	1	B4100396			MA		4100303	
-	BRKI ARMING SWITCH	 	<del>                                     </del>		C4100397			MA		4100303	
Δ	ADAPTER SUN GATE	1		1	B4100399			MA		4100303 5	
	STRUCTURE MCPU INSTE	 	<del> </del>		U4100501			MA		4100303	
	STRUT MCPU	1			[	B4100502		MA		4100501 6	
_	JOINT MCPU	 <del> </del>	<del> </del>		+	C4100503		MA		4100501 6	
		1	1		1	C4100504		MA		4100501 6	
	FOOT MCPU BRACKET MTG MCPU	 <del> </del>	+			U4700309		MA	-,	4100501 6	
				ŀ	14100225			MA			
A	ATT CONT BOTTLES	1	1	1	U4190225	21		I MM	N)	[ 4100303 ]	153

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	TITLE	1 11	111	IA	v	VI	VII ·	REL. FOR MISSILE SERIAL THOU, SEE.	MEXT OFF.	SEQUENCE NUMBER
A	BRACKET SUP YAW JETS		+	1	C4200595			MA R	4100303 5	15400
	END SOL PAN LINK		1	B4100313				MA R	4100304 4	15500
1	SPACER SOL PAN LINK		<u> </u>	T			A4100316	MA R	4100304 8	15600
I A	TRUSS SECTION 3 ASSY	1	i	J4100340	l			MA R	4100304 4	15800
TA	TUBE SUPERSTRUCTURE		<u> </u>	1	D4100317			MA R	4100340 5	15900
Ιd	FITTING TRUSS SECT 3				C4100341			MA R	4100340 5	16000
A	FITTING TRUSS SEC 3				D4100342			MA R	4100340 5	16100
1	TRUSS SECTION 1 ASSY		1	U4100350				MA R	4100304 4	16200
7	TUBE SUPERSTRUCTURE			T	D4100317			MA R	4100350 5	16300
L1	FITTING TRUSS SEC 1				J4100351			MA R	4100350 5	16400
17	FITTING TRUSS SEC 1		1	•	D4100352			MA R	4100350 5	16500
1.7	FITTING TRUSS SEC 1				D4100353			MA R	4100350 5	16600
1 /1	BRKT INFRA RED RADIM				C4100354			MA R	4100350 5	16700
14	GUSSET TRUSS SEC 1			1	C4100355			MA R	4100350 5	16800
	FITTING TRUSS ASSY		i		D4100356	1		MA R	4100350 5	16900
1.7	TRUSS SECTION 2 ASSY			U4100360				MA R	4100304 4	17000
1 7	FITTING TRUSS SEC 2	į			D4100317			MA R MA R	4100360 5	17100
1.7	FITTING TRUSS LOWER				D4100358			MA R	4100360 5	17200
17	BRACKET TRUSS			i	D4100359 B4100446			MA R	4100360 5	17300 17400
H	SURFACE TREATMENT		-	ļ	B4100446	A 90302		MA R	4100360 5	17500
اما	SHIELD THERMAL ASSY			J4100365	1	n 90302		MA R	4100304 4	17600
17	INSERT THERM SHIELD			54100303	B4100361	<b></b>		MA R	4100365 5	17700
	INSERT THERM SHIELD				B4100366			MA R	4100365 5	17800
H	INSERT RADIOMTR SPT	<del></del>		<del> </del>	84100367			MA R	4100365 5	17900
11	INSERT THERM SHIELD				B4100368			MA R	4100365 5	18000
H	INSERT THERM SHIELD				A4100369			MA R	4100365 5	18100
Ιİ	INSERT				B4100373	!		MA R	4100365 5	18200
18	PLATE ASSY SUPERSTRU			J4100370				MA R	4100304 4	18300
A	JOINT PLATE SUPERSTR				04100371			MA R	4100370 5	18400
A	JOINT PLATE SUPERSTR			1	C4100372			MA R	4100370 5	18500
	SADDLE PART FLUX DET	1			B4100431			MA R	4100370 5	18600
$\Box$	CLEVIS SOL PAN LATCH			B4100379				MA R	4100304 4	18700
I A	PLATE STA 438.281	İ		1	J4100318			MA R	4100518 5	18715
A	MAGNETMETER SUPP ASY			J4800257				MA R	4100304 4	18800
A	RING MOUNTING		<u> </u>		U4100311			MA R	4800257 5	18900
П	COVER MAGNETOMETER				C4800272			MA R	4800257 5	19000
LA	LINK SOLAR PANEL SPT		D4100315					MA R	4100310 3	19100
11	SCREW PAN HD			A 90347		İ		MA R	4100315 4	19200
ш	LINK ASSY SOLAR PAN			B4100312				MA R	4100315 4	19300

_			•	ALIFORNIA INSTI MAR I NER		IOLOGY, PASAC	PAGE	6	4-12-63		
R	AWING LIST, OFFSI	<u>: T</u>	ı u	m	l IV	T .	٧١	VIII	REL. FOR MISSILE	MEXT OFF.	SEQUENC
7	SUPPORT SOL PAN LINK		<b></b>		B4100314	<u> </u>			MA R	4100315 4	1940
١	SPACER SOL PAN LINK			į	A4100316		i 1		MA R	4100315 4	1950
ł	LATCH ASSY		+	+	00158100		<del> </del>		MA R	4100315 4	195
ı	DRIVE OUTPUT YOKE		1	C4100346		1			MA R	4100310 3	196
t	GEAR ASSY		1		D4100347	1	<b></b>		MAR	4100346 4	197
l	WASHER		ì			A4100404	!!		MA R	4100347 5	198
t	RING MTG		†		<del>D4100348</del>				MA R	4100346 4	199
ı	CAP		1		B4100349		1 1		MA R	4100346 4	200
t	WASHER				B4100403				MAR	4100346 4	201
ł	SHIELD LOUVER INSTL		1	D4100363		1			MA R	4100310 3	202
Ī	SHIELD LOUVER HOUSE				D4100362				MA R	4100363 4	203
۱	SHIELD LOUVER HOUSE			D4100364		1			MA R	4100310 3	204
ſ	SHIELD LOUVER HOUSE		1		D4100362				MA R	4100364 4	205
l	UPPER SOL PAN LATCH		1	4100375	1	İ			MA R	4100310 3	206
Ī	BOLT HEX HEAD				A 90286				MA R	4100375 4	207
l	SCREW INT WRENCH				A 90346	1	l i		MA R	4100375 4	208
ſ	BOLT EYE SOL PANEL		1		C4100374				MA R	4100375 4	209
ı	BEARING SOL PANEL			1		K4100451			MA R	4100374 5	210
T	LINK LAICH SULAR PAN		ĭ	7	C4100376	1			MA R	4100375 4	211
L	BRACKET PIN PULLER				B4100377				MA R	4100375 4	212
Γ	SURFACE TREATMENT			İ	L	A 90302			MA R	4100377 5	213
L	RETAINER LATCH			1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	B4100435				MA R	4100375 4	214
١	YOKE ANTENNA INSTALL			J4100400	,	1			MA R	4100310 3	215
L	SCREW IN WRENCHING		ļ		A 90346				MA R	4100400 4	216
1	CONNECTOR ASSEMBLY				D4100320	D3151129			MA R	4100400 4	217
L	BODY ASSEMBLY		<b>.</b>		L	F			MA R	4100320 5	218
۱	INSULATOR CONN R ANG			i	ļ		D3151130 B3151131		MA R	3151129 6	219
Ļ	INSULAT CONN R ANGLE		<u> </u>	- <del> </del>	<u> </u>		83151132		MA R	3151129 6	221
١	CONTACT R ANGLE CONN					I .	B3151133		MA R	3151129 6	222
ŀ	COUPLING R ANGLE		1		ļ	ļ	C3151135		MA R	3151129 6	223
1	SPACE R ANGLE CONN				i	i	R3151165		MA R	3151129 6	224
1	BUSHING COND R ANGLE		<b>.</b>	<u> </u>			23151166		MA R	3151129 6	225
l	NUT PLAIN HEXAGON				1	  B3151174	-2121100		MA R	4100320 5	225
	REFLECT HI GAIN ANTT		<del> </del>			U4100321			MA R	4100320 5	227
1	DOUBLER SAIN ANTI		1		1		84100150		MA R	4100320 5	221
ļ	REFLECTOR HI GAIN		<del></del>	+	-	ļ	U4100159		MA R	4100321 6	229
1	STRIP INNER ANTENNA			1			C4100195		MA R	4100321 6	230
1	STRIP OUTER SUPPORT		+	+	<del></del>		04100198		MA R	4100321 6	231
1	STRIP RADIAL ANTENNA		1	1	l		C4100199		MA R	4100321 6	232

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			CAL	FORMIA INST	TUTE OF TECH	NOLOGY, PASAL	DENA. CALIF.		DATE LISTED			
DF	AWING LIST, OFFSI	ΕT	-	MARINER			PAG	E 7	4-12-63			
					1				REL. FOR MISSILE	W. 77	077.	*FOURTER
k:	TITLE	' '	1)	191	IV	٧	V1	VII	SERIAL THEU, SER.	MEXT ASSEMBLY	COL.	REQUENCE
178	SUPPORT PIVOT ARM					· · · · · · · · · · · · · · · · · · ·	J4100330		MA R	4100321	6	23300
l A	DOUBLER						ļ į	84100190	MA R	4100330	7	23400
TA	SUPPT STRUCT ASSY				1	1	U4100336		MA R	4100321		23500
I A	DOUBLER SUPPT STRUCT	i					1	04100148	MA R	4100336		23600
H	CHANL WELDMENT SUPPT					<del></del> -	L	04100151		4100336		23700
I A	GUSSET SUPP STRUCTOR						1 1	84100143		4100151		23800
A	CHANL SUPPT STRUCT				1			04100153		4100151		23900
l A	DOUBLER SPT STRUCT				į	!		84100190		4100151		24000
Hal	CHANL WELDMENT SUPPT			-	i –			4100152	MA R	4100336		24100
IA	GUSSET SUPP STRUCTUR				i			84100143	MA R	4100152		24200
IA	CHANL SUPPT STRUCT				1	1		04100153	MA R	4100152		24300
A	DOUBLER SPT STRUCT						)	84100190	MA R	4100152		24400
A	RING				†		1	J4100154	MA R	4100336	7	24500
I A	DOUBLER RING FLANGE				1		)	84100191	MA R	4100154	8	24600
A	BRACE PIVOT ARM							C4100155	MA R	4100336	7	24700
I A	RING FLANGE INNER				İ			04100194	MA R	4100336	7	24800
A	DOUBLER RING FLANGE							84100196	MA R	4100336	7	24900
	TEE				l .		1 1	84100229	MA R	4100336	7	25000
Н	HUB ASSY HI GAIN ANT						1	4100335	MA R	4100336	7	25100
l A	STIFFENER SUPP STRUT	1			1			(4100149	MA R	4100335	8	25200
A	ARM PIVOT		"		1		1	4100157	MA R	4100335	8	25300
I A	HUB SUPPT STRUCT ANT				1		1 1	04100334	MA R	4100335	8	25400
A	INSULAT PIVOT ARM							04100338	MA R	4100335		25500
I A	INSULAT SLEEVE ANTEN				1		1	34100339	MA R	4100335	8	25600
Н	DOUBLER PIVOT ARM							(4100439	MA R	4100336	7	25700
1	FEED ANT 4FT PARABOL					U4100322			MA R	4100320	5	258.00
Ta	CAP						C3151073		MA R	4100322	6	25900
A	OUTER CONDUCTOR ASSY						U4100323		MA R	4100322	6	26000
Ε	SHELL CONNECTOR					1		C315108 <b>0</b>	MA R	4100323	7	26100
A	CONDUCTOR OUTER ANT							04100327	MA R	4100323	7	26200
Α	FEED DIPOLE ELEMENT							C4100328	MA R	4100323	7	26300
LA	SLEEVE FEED ELEMENT							84100329	MA R	4100323	7	26400
A	GROUND PLANE ASSY							D4100436	MA R	4100323	7	26500
Ld	GROUND PLANE							<u>03151066</u>	MA R	4100436		26600
8	STIFFENER					1		C315106 <b>8</b>		4100436		26700
LA	HUB GROUND PLANE ANT							D4100437		4100436		26800
18	INNER CONDUCTOR ASSY						C4100324		MA R	4100322		26900
	PLUG							C3151078		4100324		27000
8	STUD				1			83151157		4100324		27100
LA	CONDUCTOR INNER ANTE						L	C4100325	MA R	4100324	7	27200

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			PULSION TUTE OF TECHN				DA	TE LISTED			
	-	MARINER		OLOGI, PASAL	PAG	L 8	4-	12-63			
AWING LIST, OFFSE	<u> </u>	 1111	T 14		VI.	YII	REL. FO	A MISSILE	MEXT ASSEMBLY		SEQUE
· · · · · · · · · · · · · · · · · · ·		 1'		L			SERIAL	THRU, SER.		COL.	
BLOCK SHORTING DIPOL						B4100326			4100324		27
INSULATOR HI GAIN		 <u> </u>				B4100438			4100324		27
TRANSFORMER COAXIAL			i .	İ		B4100440			4100324		27
SCREW SHORTING BLOCK		 			B4100337		MA F		4100322		27
ADHESIVE			1	C4100331	A 90091	i	MA F		4100320		27
STUD THREADED 4 FT		 ļ	L		B3151087		MA		4100331		27 27
LONGERON HI GAIN ANT		1	i		B4100332		MA F		4100331		28
STUD SLOTTED ANT		 			B4100332	i	MA	· ) 1	4100331	1 1	28
GROUND WIRE ASSEMBLY	1	ļ		B4900254	P4100333	i	MA F		4100332		28
YOKE EARTH SENS ANTE		 ļ	J4100345	54700274			MA		4100400		28
POST ASSY ROT COAX	1		04100401			1	MA F		4100400		28
SURFACE TREATMENT		 <del></del>	D4100401	A 90302			MA		410040		28
BEARING YOKE	j	ì	B4100402	70302		1	MA F	1 1	4100400		28
MIRROR ASSEMBLY		 	C4100420		· · · · · · · · · · · · · · · · · · ·		MA		4100400		28
WASHER LONG RANGE	1	i	B4100421				MA F		4100400		28
SHADE EARTH SENSOR		 +	04100422		<del> </del>	·	MA F		4100400		28
BOX BAFFLE ASSEMBLY	1			D4100423	ŀ		MA F	il 1	4100422		29
SHADE DIRECT SUN		 1		C4100424			MA		410042		29
SURFACE TREATMENT					A 90302		MA F	≀	4100424	4 6	29
BAFFLE SET SHADE		 <del> </del>		C4100425			MA F	1	4100422	2 5	25
STUD LONG RANGE			B4100426		!		MA F		4100400	0 4	29
SPACER COAX HOUSING		 1	B4100434		1		MA	₹	4100400	0 4	29
ANT DAMPER INSTALL	!		D4100462				MA F	₹	4100400	0 4	29
SCREW		 1		A 90346			MA		4100462	2 5	
SUPPORT ANTENNA	1	1		C4100457			MA F		4100462		
SHAFT ASSEMBLY ANT		 1		04100458			MA		4100462		29
TUBE ANTENNA DAMPER				C4100459		ļ	MA		410046		30
BUSHING ANT DAMPER	ì	ł		B4100460			MA		410046		30
BOOT ANTENNA DAMPER		 		C4100461			MA		4100463		30
GROUND WIRE ASSY	i	1	B4900257			İ	MA	1	4100400		30
LOUVER INSTALLATION		 U4100419					MA		4100310		30
SCREW MACH SOC HEAD	I	i	A 90346				MA MA		4100419		30
SCREW MACH PAN HEAD		 	A 90347		1	ļ	MA	*	4100419		30
SURFACE TREAT		1	04100204	A 90302			MA F	1	4100419		30 30
ACTUATOR SPIRAL COIL		 1	<u> </u>	B4100228		ļ	MA I		4100204		
LOUVER ASSEMBLY COMP			04100310		1		MA F		410020		31
SURFACE TREATMENT		 	D4100210	A 90302			MA		410041		
SURFACE IREALMENT I		1	1	M 90302	1	1	MA 1	<b>1</b> 1	1 4100210	피기	31

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TITLE	1	"	ııı	IV	٧	γı	VII REL. FOR MISSILE	NEXT OFF.	BEQUENC
SHAFT					8410021	2 -	MA R	4100210 5	313
HOUSING TRUST BEARNS			_l_	I	B410021	3	MA R	4100210 5	314
BEARING ASSEMBLY	I				C4100214	4	MA R	4100210 5	315
SHAFT				1	1	B4100215	MA R	4100214 6	315
RETAINER SELF-LOCK						B4100216	MA R	4100214 6	315
WASHER					İ	B4100217	MA R	4100214 6	315
BEARING						B4100218	MA R	4100214 6	315
PAD					l	84100219	MA R	4100214 6	315
MIRROR LOUVER ASSY				B4100418			MA R	4100419 4	316
MIRROR				l	84100429	<b>≯</b>	MA R	4100418 5	31
SHADE FIXED EARTH			D4100427			I "I	MA R	4100310 3	318
SPACER PRIMARY			B4100432			]	MA R	4100310 3	319
SURFACE TREATMENT				A 90302			MA R	4100432 4	320
STRUCTURE PIVOT ARM			C4100443		İ	1	MA R	4100310 3	32
SCREW BUMPER	ĺ			B3151862			MA R	4100443 4	32.
BRACKET PIVOT ARM				B3151864			MA R	4100443 4	32
TUBE PIVOT ARM SUPP	1			B4100444			MA R	4100443 4	324
ION CHAMBER PARTICLE			_ J4100445	<b>,</b>	•		MA R	4100310 3	325
INTERNAL WRENCHING				A 90346			MA R	4100445 4	326
WASHER FLAT INSUL				B 90362			l marki	4100445 4	32
WASHER SHOULDER	l			B 90398		-	MA R	4100445 4	328
SHADE SUN PARTICLE	[		Ī	D4100447	1	!	MA R	4100445 4	329
SURFACE TREATMENT					A 90302		MA R	4100447 5	330
IONIZATION CHAMBER				D4800065			MA R	4100445 4	33
WASHER FLAT	I				A 90344		MA R	4800065 5	332
GASKET SEAL					B3155543	d	MA R	4800065 5	333
SUPPORT RING PRE-AMP	T				84800061		MA R	4800065 5	334
MIRROR FINISH				1		la 90302	MA R	4800061 6	335
COVER PRE-AMPL					84800062		MA R	4800065 5	336
MIRROR FINISH						A 90302	MA R	4800062 6	33
ION CHAMB STRUCT ASY					C4800063		MA R	4800065 5	338
SHELL HALF UPPER				!		C3155003	MA R	4800063 6	339
SHELL HALF LOWER						C3155004	MA R	4800063 6	340
TUBING			1			B3155005	MA R	4800063 6	341
DOUBLER TUBING						B3155009	MA R	4800063 6	342
DOUBLER						B3155010	MA R	4800063 6	343
DOUBLER NECK						B3155011	MA R	4800063 6	344
NECK CHAMBER				L		B4800064	MA R	4800063 6	345
CB1 PRE-AMPLIFIER					J4800069		MA R	4800065 5	346
ADHESIVE						A 90091	MA R	480006916	347

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::	TITLE	1		101	14	٧	VI	VII		RHISSILE	NEXT	678.	SEQUENCE NUMBER
-1	TRANSIPAD			-			1		SERVAL	THRU, BER.	ASSENDLY	COL.	
٨	PC PRE-AMPLIFIER			1		İ	A 90127 C4800068		MA R		4800069		34800
7	QUARTZ INTEGRAT ASSY		ļ		ļ	C4800083			MAR		4800069		34900
-	CUP MOUNTING		}	1	1		B3155540		MA R		4800065		35000
4	SPIDER			ļ	ļ		B3155541				4800083		35100
ĺ	CAN SHIELDING						B3155544		MA R		4800083		35200
-	QUARTZ						B3155545		MAR		4800083		35300
1	PIN CONTACT						B3155546		MA R		4800083		35400
4	PIN OFFSET CONTACT						B3155547				4800083		35500
-	HEADER BASE				i	Ì			MA R		4800083		35600
-1	RING CLAMPING SEAL			<b></b>			B4800084				4800083		35700
۵	PARTICLE FLUX DETECT				14.000363	B4800085	1 1		MA R		4800065		35800
A	CHAS PARTEL FLUX DET			<b></b>	U4800352				MA R		4100445		35900
٦	COVER THERMAL PARTOL					U4800342			MA R		4800352		36000
4	SURFACE TREATMENT			L		J4800343			MA R	1	4800352		36100
ا۸	CB1 PART FLUX DETECT			1			A 90302	- 1	MA R	1 1	4800343	1 -1	36200
7	TRANSIPAD INSTAL			<u> </u>		U4800344			MA R		4800352		36300
٦					1		A 90303		MA R		4800344		36400
9	CB1 PART FLUX DETECT			L			A4800344	PL	MA R		4800344		36500
9	PART FLUX DET SCHEM		ĺ		]		U4800345		MAR		4800344	6	36600
2	PC1 PARTICLE FLUX				1		J4800351		MA R		4800344		36700
٩	SCHEMATIC			1	i	µ4800345			MA R		4800352	5	36800
↲	MULTI-OUTPUT TUBE					D4800346		_	MA R		4800352		36900
4	SHIELD STAINLESS					C4800347			MA R		4800352	5	37000
4	END SENSITIVE 213 GM			]		C4800348			MA R		4800352		37100
٩	SHIELD BERYLLIUM					C4800349			MA R		4800352	5	37200
_	RAIL			1	İ		C L213		MA R		4800349		37300
_1	GUARD DETECTOR TUBE					C4800350			MA R		4800352		37400
_	CB2 CB3 PARTICLE FLX					C4800422	L		MA R		4800352	5	37500
-	BLANKET THERMAL INST			J4100455					MA R		4100310	3	37600
_	BLANKET THERMAL ASSY				µ4100456				MA R		4100455	4	37620
-	INSTALLATION STABLIZ			D4100464					MAR		4100310	3	37700
-	SCREW				A 90346				MA R	1	4100464	4	37800
T	STABILIZER ASSY VERT				D4100465				MA R		4100464		37900
-	SPRING COMPRESSION					B4100463			MA R	1	4100465		38000
7	PIN-VERTICAL STABLIZ			1		B4100467			MA R	$\vdash$	4100465		38100
-1	FITTING VERTICAL					D4100468			MA R		4100465		38200
7	RETAINER VERTICAL			1		C4100469			MA R	t t	4100465		38300
- [	INNER TUBE VERTICAL			1	l	C4100470			MA R	1 1	4100465		38400
7	OUTER TUBE VERTICAL					04100471		-	MA R		4100465		38500
-1	BOOT-VERTICAL STABLZ					B4100472			MA R	1 1	4100465		38600

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				T	IV	٧	VI VI	¥11	REL. FOR	MISSILE	MEXT ASSEMBLY	erf.	SEQUENCE NUMBER
H	TITLE	'	"					*11	STREAL	TREE, SER.		$\perp$	
✝	ROD VERTICAL STABL					B4100473			MA R		4100465		3870
-	SOCKET VERT STAB			_1	C4100466				MA R		4100464		3880
T	SPACER VERTICAL STBL			l	B4100474				MA R		4100464		3890
$_{ m L}$	SURFACE TREATSHANDLE					A 90302	<b></b>		MA R	<del></del>	4100474	++	3900
Т	STABILIZER ASSY				D4100475		i		MA R	1	4100464		3910
┙	OUTER TUBE ASSEMBLY					C4100483			MA R	4	4100475		3920
Т	SURFACE TREATSHANDLE			l			A 90302		MA R	3 1	4100483		3930
⅃	ADAPTER HORIZONTAL						84100477		MAR		4100483		3940
Т	TUBE SUPPORT HORIZON			1	l		B4100478		MA R	·	4100483		3950
4	TUBE OUTER HORIZONTL						C4100480		MA R	+	4100483		3960
1	FITTING ATTACHMENT			i			D4100481		MA R		4100483		3970
┙	INNER TUBE ASSY					C4100484			MA F		4100475		3980
١	FITTING HORIZONTAL			1			B4100476		MA R		4100484		3990
_	TUBE INNER HORIZONTL			<u> </u>			B4100479		MA F		4100484		4000
-	SPACER PYROTECHNIC	}		B4100496			1			'I I	4100310		4010
┙	SUN GATE ASSY			C4200002			<del> </del>		MA F		4100310		4020
4	SUPPORT PAOTO CELL				04200003	<b>\</b>			MA F	'I I	4200002		4030
4	SHIELD LIGHT # 1				C4200004				MA F		4200002		4040
1	SHIELD LIGHT # 2				C4200005		1 1		MA F		4200002		4060
4					D4200006		<del> </del>		MA F	1	4200002		4070
٦	PLATE RETAINER			J4200588		1			MA F		4100310		4080
9	PIPING ATTITUDE INST SURFACE TREATSHANDLE			34200366	A 90302		<del>                                     </del>		MA F	<del>\</del>	4200588		4090
١					A 90346		1		MA F	'i i'	4200588		4100
٦	SCREW SOCKET HEAD SHELL NITROGEN TANK			-	D4200044		<del>                                     </del>		MA F		4200588		410
7		i		-  -	J4200589				MA F		4200588		4110
4	BRKT SUPPORT				J4200569	04200590	<del></del>		MA F	,	4200589		4120
١	RING SPT BRKT NITROG PLATE SPT BRKT NITRO			1		D4200590			MA		4200589		4130
┪	VALVE REGULATOR ASSY			<del></del>	D4200592				MA F	,	4200588	4-4	4140
4					04200592	C3152162	1		MA	,	4200592		414
4	NEEDLE VALVE BLEED BRACKET VALVE REGUL			-	<del> </del>	04200593			MA F		420059		4150
- 1	TEE SOCKET WELD SPEC					C4200594			MA F		4200592		4160
-	TUBE FILL CONNECTION			<del></del>		C420060			MA F	* -	420059		
۵	TUBE TRANSDUCER CONN			-		C4200608				èl l	420059		418
-1	TEE SOCKET WELD					C4200610			MA F	3	420059		
	SLEEVE SOCKET WELD			İ	1	C4200612			MA F	₹ 1	420059		420
$\dashv$	MANIFOLD VALVE					04200616			MA F	1 1	420059		421
	ELBOW SOCKET WELD	1		- (	C4200603				MA F	ર	4200581		
٦	ELBOW SIDE OUTLET				C4200604		1	_	MA F	₹	4200581		4230
	MANF 3 VALVE CONT			1	D4200605		1		MA F	al l	4200581		4240

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4	TITLE		11	121	l ıv		٧ı	VII	REL FOR MISSILE	NEXT ASSEMBLY	907.	SEQUENCE
Н	*****				1	1			SERIAL THRE, SE		EOL.	NUMBER
٦	MANIFOLD 2 VALVE DWG			T	4200606				MAR	4200588		42500
. 1	SLEEE SOCKET WELD				C4200611				MA R	4200588		4260
7	ELBOW SOCKET WELD HP				C4200613				MA R	4200588		4270
1	SPIDER ASSY BRAZEMT	j			04200614				MA R	4200588		4280
ℸ	FLANGE 3 BOLT				C4200615				MAR	4200588		4290
1	HOSE METAL FLEX ASSY	1			C4200620				MA R	4200535		4300
đ	NOZZLE JET				D4200624				MA R	4200588		4310
١	SPACE THERMAL				D4200625				MA R	4200588		4320
+	SLEEVE SUCKET WELD			<del></del>	C4200629	1			MA R	4200588		4330
A	SHIELD REG WELDMENT	ľ			D4200630	1	1		MA R	4200588	4	4340
┪	FRAME SHIELD REGULAT			1		04200633			MA R	4200630	5	4350
A	COVER FR SHIELD REG			1		C4200634		•	MA R	4200630	5	4360
ᆈ	COVER TOP SHIELD REG			<del> </del>		C4200635			MA R	4200630	: 5	4370
1	SHIELD REG L WR WELD			1	04200631				MA R	4200588	4	4380
ᆈ	BLK DIAG DWG				04201043			<del>-</del>	MA R	4200588	4	4384
٦	BUSHING BOTTLE BRCKT				B4201044				MA R	4200588		438
4	GEAR TRAIN ANT DRIVE			J4200600		<u> </u>			MA R	4100310		439
٦	BOOT POTTING	1			B 90143			ļ	MA R	4200600		440
,	GEAR COMPOUND ASSY				C3151095				MA R	4200600		4410
ä	GEAR SPUR ANT DRIVE	1		1	13.3.0	k3151096			MA R	3151095		4420
爿	GEAR HELICAL R.H.			<del>                                     </del>	<del></del>	C3151097		l	MA R	3151095		4430
ä	GEAR HELICAL ANT DR	ł		1	C3151098				MA R	4200600		444
4	POTENTIOMETER GEAR				B3151102			<del> </del>	MA R	4200600		445
7	PINION FINAL DRIVE	į.			D3151102				MA R	4200600		446
4	WORM SHAFT ANT DRIVE				C3151105			ļ	MA R	4200600		447
ង		i			C3151107			ŀ	MA R	4200600		448
q								ļ	MA R	4200600		449
Ч	GEAR SPUR ANT DRIVE				B3151110				MA R			
1	GEAR SPUR				B3151111					4200600		450
٩	RETAINER BEARING ANT				B3151115				MA R	4200600		451
٩	RETAINER BEARING ANT	1			83151116				MA R	4200600		452
q	SHAFT WORM GEAR ANT				B3151119				MA R	4200600		453
þ					C3151122				MA R	4200600		454
В	SPACER ANTENNA DRIVE				B3151125				MA R	4200600		455
Ą	BUSHING ANT DRIVE	ļ			B3151126	1		1	MA R	4200600		456
q	DRIVE ANTENNA SCHEM				C3151138				MA R	4200600		457
d	PLATE GEAR ANTENNA				J3151749	1		!	MA R	4200600	1 4	458
Е	GEAR ANTI-BACKLASH				D3151751	1			MA R	4200600	1 4	459
ļ	SERVO MTR GEAR TRAIN				B3151753	i I		1	MA R	4200600	) 4	460
1	GEAR SPUR MOTOR ANT				B4200601			1	MA R	4200600	1 4	461
1	CLUTCH SLIP ANT DRVE				D4200647			1	MA R	4200600	1 4	462

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			CA	JET PROI LIFORNIA INSTIT MARINER	TUTE OF TECHN			SE 13		TE LISTED	7		
D R	TITLE	ET T	н		iv		V1	Yu		R MISSILE		077.	
	SENSOR ASSY PRIMARY				ļ	ļ <u>.</u>	ļ <u>"</u>		DERIAL	THRY, SER.	VESCHOLA NEXL	to L	SEQUENCE NUMBER
ว	ASSEMBLY PHOTOCELL	1		C4200666		ļ	l		MA F		4100310		46300
1	SUPPORT PHOTO CELL			<del>                                     </del>	B 90254		ļ	ļ	MA F		4200666		46400
lă	SHIELD LIGHT SENSOR			1	C3152595			l	MA F		4200666		46500
급	TB ASSY			ļ. —	C3152596				MA F		4200666		46600
1	ARMING SWITCH ASSY	1			D4200006		l	i l	MA		4200666	4	46700
+	LATCHING COLLAR			C4200820					MA F	*	4100310		46800
ľ	LANYARD ARMING SW				C4200643	i	İ	1	MAF		4200820	4	46900
$\dashv$	SENSOR EARTH LONG				B4200821		L		MA F		4200820	4	47000
В	LONG RANGE EARTH SEN			D4500034			1		MA F		4100310	3	47100
걸	ELECTRONIC ASSY			<u> </u>	J4800370				MA F		4500034		47200
ä	SCHEMATIC LONG RANGE					J4200596	1		MAF	: 1	4800370		47300
ᆛ	CB16CB4 SUBASSEMBLY			ļ			U4200408		MA F		4200596	6	47400
7	CB4 PRE-AMP & PULSE	1		l .			C4200410		MA F		4200596	6	47500
-7	TRANSIPAD							J4200409	MAR		4200410		47600
1	TRANSIPAD	ŀ						A 90127	MA F		4200409	8	47700
-								A 90303	MA F		4200409		47800
ä	SCHEMATIC LONG RANGE	i		[ ]				J4200408	MAF	I	4200409	8	47900
4	CB4 PRE-AMP & PULSE CB4 PC PREAMP & PULS							A4200409	MAF		4200409	8	48000
d	CB1 HIGH VOLTE LOW	1					_	J4200411	MA F		4200409	8	48100
급	SCHEMATIC LONG RANGE							J4200412	MA F		4200410		48200
7	CB1 HIGLOW VOLTAGE						1	J4200408	MA R		4200412		48300
7	CBI PC HI VOLT & LOW							A4200412	MA R		4200412		48400
	MAGNETIC SHIELD				i			J4200413	MA R		4200412	8	48500
_	CB2&CB3 SUBASSEMBLY							C4200597	MA R		4200410	7	48600
7				1			C4200415	ľ	MA R		4200596	6	48700
4	CB2 ASSY PULSE DEMOD				i			J4200414	MA R	1 1	4200415	7	48800
4	CB2 ASSY PULSE DEMOD				I			A4200414	MA R		4200414	8	48900
4	CB2 PC PULSE DEMOD							J4200416	MA R		4200414	8	49000
7	CB3 REED DRIVE ELECT			1 .	i			14200417	MA R		4200415	7	49100
<u>q</u>	SCHEMATIC LONG RANGE							J4200408	MA R		4200417		49200
4	CB3 REED DRIVE ELECT							A4200417	MA R		4200417		49300
1	CB3 PC REED DRIVE			L				J4200418	MA R		4200417		49400
	MAGNETIC SHIELD	I .						C4200597	MA R		4200415		49500
4	L V TRANSFORMER MTG						C4200598		MA R		4200596		49600
- 1	H.V. TRANSFORMER MTG						C4200599		MA R		4200596		49700
4	BRACKET CONNECTOR						C4200836		MA R		4200596	6	49800
	BRACKET BOARD ATTACH	i					C4200837		MA R	-	4200596		49900
	INSERT HELI-COIL							B 90119	MA R		4200837	7	50000
٦	NUTPLATE CONNECTOR						C4200839		MA R		4200596	6	50100
4	COVER BRAZEMENT	ļ		! !	1		J4200846		MA R		4200596	6	50200

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	<del></del>			

- 1		 								<del>,</del>	_	
CHO.	TITLE	"	111	lv	٧	Y1	VII	REL.	FOR MISSILE	NEXT ABBEMBLY	DFF.	SEQUENCE NUMBER
	INSERT HELT COIL	 		<del> </del>	-	<del> </del>	B 90119			4200845		50300
	STANDOFF BOARD MOUNT					C4200849	1	MA		4200596		50400
T	INSERT HELT COIL	 					B 90119		R	4200849		50500
	SPACER LENS			1	K4200840				R	4800370		50600
$\neg$	PASS SST			<del> </del>	+	A 90399		MA	R	4200840		50700
- 1	LENS ASSY			l.	C4200848			MA		4800370		50800
7	HOUSING LENS		-	<del> </del>		4200832		MA		4200848		50900
- 1	SHADE LIGHT			-		4200833		MA		4200848		51000
7	NUTPLATE LENS	 		<del> </del>	C4200853			MA		4800370		51100
- [	LOCATOR BASE			İ	C4200863			MA		4800370		51200
_	PASSIVATION	 	••	<del> </del>	1.20000	A 90401		MA		4200863		51300
- [	OUTLINE			i	J4200866			MA				
-	TENS COVER	 		1	C4200868			MA		4800370		51400
ı	CASE LONG RANGE			1	U4200872					4800370		51500
-+	INSERT HELT COIL	 		ļ	D4200812			MA	1	4800370		51600
В	CHOPPER DRIVE ASSY				14000040	B 90119	1		R	4200872		51700
- 7	HOUSING PHOTOMULTPEN				J4800369			MA		4800370		51800
4	PHOTOMULT TUBE ASSY					04200822		MA		4800369		51900
-1	STEM RESISTOR BLOCK	 		<u> </u>			C4200826			4200822		52000
٦	UPPER TERMINAL PLATE			1			C4200823		R	4200826		52100
7	LOWER TERMINAL PLATE			<u> </u>			C4200824		R	4200826		52200
7				Í			C4200825			4200826	8	52300
4	HOUSING PHOTOMULTPLR				_1		D4200850		R	4200822	7	52400
- 1	WINDOW PHOTOMULTIPER						B4200855	MA	R	4200822	7	52500
_	INSULATING CUP	1 1					B4200856	MA	R	4200822	7	52600
ł	WASHER PHOTOMULTIPLE						B4200857	MA	R	4200822	7	52700
	SHIELD			1		i	C4200858	MA	R	4800822	7	52800
-1	INSULATOR PHOTOMULT						C4200859	MA	R	4200822	7	52900
	CAP PHOTOMULTIPLIER						C4200860	MA	R	4200822		53000
П	SPEC SHIELD INSTL			1			C4200862	MA	Ŕ	4200822	7	53100
Ą	COIL ASSEMBLY			f		K4200827			R	4800369	6	53200
A	BASE COIL	 1		1			04200829		R	4200827		53300
Α	MAGNET ASSEMBLY				1	04200828		MA		4800369		53400
1	SCREW RAIL			†~~~~		C4200830		MA		4800369		53500
	PASSIVATION				1		A 90401	MA		4200830		53600
-†	RATL	 <del> </del>		<del> </del>	+	C4200831	70.01	MA		4800369		53700
-1	BRACKET TRANSDUCER			1	1	C4200834			R I	4800369		53800
+	REED CHOPPER DRIVE	 +		<del> </del>		D4200838		MA		4800369		53900
- 1	FRAME CHOPPER&COIL					C4200841		MA				
ᇡ	CHOPPER	<del></del>		<del> </del>		D4200842	<b>├</b>		R	4800369		54000
	MOUNT REEDS	] ]								4800369		54100
		Ll			1	D4200843	L	MA	R	4800369	6	54200

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CONDUCTOR CENTER

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DRAWING LIST, OFFSET REL. FOR MISSILE SEQUENCE NUMBER ıv Y) TITLE C4200844 BEARING PLATE REEDS 480n369 54300 MA R HOUSING CHOPPER DRVE METRISITE REWORK 4800369 4200652 54500 0420085 MA R 24600 420034 PICKOFF 4800369 6 4800369 6 54700 54800 MOUNT MAGNET C4200861 MA F ADJUSTING SCREW STRAP RAIL MA R <u>84200864</u> C4200873 STRAP RAIL
TEMP REFERENCE ASSY
SUPPORT INFRARED
SHIELD INFRARED RADN
MIG BLOCK TEMPERATUR
SEACER TEMP SENSI
TEMP SENSISTOR SCHEM
COMMETTER ASSEMBLY 4800369 4130310 54900 55000 MA R MA R C4500155 D4500156 C4500157 B4500158 B4500159 4500155 4500155 MA R 55100 MA R 4500155 4500155 4500155 4500155 55300 MA R MA R 55400 55500 MA 55600 55700 55800 55900 MA R CONNECTOR ASSEMBLY C4500162 MA R MA R 4500162 5 4500161 6 C4500161 CB ASSY TRANSIPAD MA R MA R MA R TEMP SENSISTOR SCHEM JOINT ROTARY COAX PAD 4500161 4100310 04600183 4600183 4600183 4600183 B3155033 MA 56100 OUTER CHOKE SPACER
BEARING SLEEVE
RETAINER RING
OUTER CHOKE CYLINDER MA R B3155035 B3155036 56200 MA R MA R MA R MA R MA R M.C. B3155037 C3155066 C3155067 B3155068 4600183 4600183 56400 56500 4600183 4 4600183 4 4600183 4 4600183 4 4600183 4 COAXIAL LINE CYLINDR
COAX LINE CNTR COND
COAX LINE SPACER
INNER CHOKE CNTR CON MA R 56800 56900 57000 МА MA R MA R MA R ADAPTER CONNECTOR B3155136 B3155137 4600183 4 4600183 4 4600183 4 4600183 4 4600183 4 4600183 4 4600183 4 4600183 4 4600183 4 4100310 3 4600340 4 3155147 5 4600340 4 4600183 4 CRANK JOINT ROTARY SPACER BEARING OUTER B3155278 B4600184 57300 57400 57500 MA MA R SPACER BEARING INNER B4600185 SPACER DIELECT SMALL
SPACER DIELECT INNER
SHELL OUTER CHOKE
ANT OMNI-DIRECTIONAL
CYLINDER SUPPORT 84600186 MA R MA R MA R D4600340 MA R C3155450 58000 GROUND PLANE LOWER BRACKET CENTER N A 58100 58200 MA R

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::	TITLE	1	11	ui	IV	v	VI	411	REL. FOR MISSILE SCRIKE THRU, SER.	MEXT Assembly	0 F F.	SEQUENCE NUMBER
A	CONDUCTOR CENTER					A3155525	1	— ——	MAR	3155272		5830
	PLUG INNER TUBE			}	B3155273				MA R	4600340		5840
-	NUT RETAINING				83155274		- 1		MA R	4600340		5850
	WASHER SUPPORT LOWER				b3155275				MA R	4600340		5860
7	WASHER SUPPURT UPPER				B3155275				MA R	4600340		5870
1	SPACER			I	B3155277		ļ		MA R	4600340		5880
7	CONNECTOR RIGHT ANGLE				<u> </u>				MAR	4600340		2886
	DOUBLER				K3155451				MAR	4600340		2900
$\dashv$	MODIFICATION ANTENNA				8315550:				AV B	4600340		5910
	GROUND PLANE UPPER				D4600341		1		MA R	4600340		5920
-†	CONE-OUTER TUBE SUBA				D4600342				MA R	4600340		5930
-	RADIOMETER INSTALL			J480040					MA R	4100310		5940
+	WASHER INSULATOR				B 95784	1			MA R	4800408		5 9 5
Α	ACTUATOR ASSEMBLY				4500122				MA R	4800408		5960
-	AUTOSYN CLAMP			-	1	3 70:07			MAR	4500122		5970
-	MOTOR SYNCHRONOUS			1		8 90275			MA R	4500122	2 5	5950
$\dashv$	HOUSING ACTUATOR			1	-	D4500123			VA R	4500122	2 5	5990
А	COVER ACTUATOR				1	04500124	t		MA R	4500122	5	6000
-	PLATE A MOUNTING			+		84500125			MA 3	4500122	2 5	6010
1	PLATE B MOUNTING				1	04500126	1		MA R	4500148	2 5	6020
-	SHAFT C ACTUATOR				_	84500127			MA R	4500122	2 5	6030
	SHAFT D ACTUATOR			1		34500128			MA R	4500122	2 5	6040
-	SHAFT F ACTUATOR					34500129			MA R	4500122	2 5	6050
	SHAFT G ACTUATOR					C4500130			MAR	4500122		6060
-	FLEX JOINT					04500131	1		ZA B	4500122	? 5	5070
Α					1	B4500132			74 R	4500122		6080
4	COUPLING ACTUATOR			- <del> </del>		B4500137	;		VA R	4500122	2 5	6090
	SPACER FLEX JOINT					84500138			MA R	4500122		6100
-	POTENTIOMETER			-	<del>-</del>	B4500139			VA R	4500122	5	611(
Α	SPRING COMP SW LEVER					5-500143			MA R	4500122		6120
-	SPLINE CLUTCH			1		B4500144		-	MA R	4500122	2 5	6130
1	GEAR BEVEL CLUTCH					64500145			MA R	4500122	2 5	6140
-	SPACER CLUTCH			+	<del></del>	E4500146			MA R	4500122	2 5	615
ı	HUB CLUTCH					84500147	İ		MA R	4500122	2 5	6160
4	FACING CLUTCH			<del> </del>	<del></del>	84500148			MA R	4500122	2 5	6170
ľ	GEAR HEAD			1	1	84500149			MA R	4500122		618
_	TB1 ACTUATOR				+	B4500150			MA R	4500122		619
	TB2 ACTUATOR			-		84500151			I MA R	4500122		
_	ACTUATOR WIRING				+	C4805375			MAR	4500127		
	SWIVEL JOINT ASSY			1	04500142				MA R	4800408		

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	TITLE			1	lv .	v	V1	YU	REL. FO	R MISSILE	NEXT Assembly	011.	SEQUENCE
"1	1						ļ	I	SERIAL	THRU, SER.		¢al.	NUMBER
١	HOUSING SWIVEL JOINT		1			B4500133			MA F	₹	4500142		6230
4	MOUNT SWIVEL JOINT					84500134			MA F		4500142		6240
1	BOLT SWIVEL JOINT					84500141	1		MA F	'	4500142		6250
4	RADIOMETER ASSEMBLY				J4800300		1		MAF		4800408		6260
ĺ	WASHER					B 90283		1	MA F	`I I	4800300		6270
4	WASHER					B 90284			MA F		4800300		6280
1	STUD LOCK					B 90312		1	MA F	`  1	4800300		6290
	CONNECTOR INSTL					C 90314			MAR	र	4800300		6300
٩	RADIOMETER CHASS ASY				1	J4800262			MA A	₹	4800300		6310
4	WAVEGUIDE SUBASSY					C4800304			MA R		4800300		632(
١	WAVEGUIDE SUBASSY 22					C4800305			MAR		4800300		633(
1	WAVEGUIDE SUBASSY 15					C4800306			MAR		4800300		6340
ı	WAVEGUIDE SUBASSY 15					C4800307			MAR		4800300	5	635(
Ţ	WAVEGUIDE SUBASSY 22					C4800308			MA R		4800300		6360
9	BRACKET ASSY DETECT					C4800311			MA R	1 1	4600300		637
1	BRACKET DETECTOR					C4800312			MA R		4800300		638
ļ	V-BLOCK ASSY RADIOM					C4800313			MA R		4800300		639
l	REFERENCE HORN					J4800334			MA R		4800300		640
1	SUPPORT RADIOMETER					J4800335			MA R		4800300		641
1	PWR SUPP SUBAY ENV					04800339			MA R		4500300		6420
J					I		C 90314		MA R		4800339		5430
1	SUBCHASS PWR SUPPLY						D4800338		MA R	1	4800339		644(
ł	CURRENT LIMIT SUBASY					i	D4800496		MA R	1 1	48000559		645(
1	CB CURRNT LMT SUBASY						ļ	C4800492	MA R	1	4800496		6460
l	INSULAT BD SUBASSY				1	1		C4800489	MA R		4800492		647
ļ	TB CURRENT LMT SUBAY							C4800490	MA R		4800492		6480
ĺ	BO CURRENT LMT SUBAY						1	C4800491	MA R	1	4800490		649
ļ	CB CURRNT LMT SUBASY							A4800492	MA R	· -	4800492		6500
l	SCHEMATIC DIAGRAM					1		C4800497	MA R		4800492		651
l	HEAT SINK SUBASSEMBY				<del></del>			C4800493	MA R		4800496		6520
l	HEAT SINK SUBASSEMBY							C4800494	MA R	1 1	4800496		6530
ļ	SUBCHASS CURRENT LMT							D4800495	MA R		4800496		6540
l	BUSHING SUBASSEMBLY							B4800502	MA R		4800495		6550
1	BUSHING SURASSEMBLY							B4800503			4800495		656
l	CURRENT LIMIT SUBASY	İ			1			A4800496	MA R		4800496		6570
ļ	CURRENT LIMITE SCHEM							C4800497			4800496		658(
ı		j						C4800501	MA R	1 1	4800496		6596
l	INSUL HEAT SUBASSY				+			B4800504	MA R		4800496		6600
ĺ	INSULT HT SINK SUBAY	ļ						B4800505	MA R		4800496		6610
L	INSULATION BD SUBASY	1	1		1		[	B4800532	MA R	1 1	4800496	7	6620

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	MAR [NER R 62	PAGE	1.0	4-12-53
DRAWING LIST, OFFSET		- 402	_ <	4-12-33

_	RAWING LIST, OFFSET											
# 4.	TITLE	1	11	111	17		\ V1	VII	REL. FOR MISSILE	- MEAI	arr.	SEQUENCE NUMBER
-1	TH CURRENT LMT SUBAY				ļ			ļ.	SERIAL THRU, SI		COL.	
	RADIOMETER SCHEMATIC						200000	B4800533		4800498		66300
7	POWER SUP RADIOMETER				<u> </u>		20869	D	MA R	4800335		66400
- 1	WAVEGUIDE SUBASSY					64000054	A 20869	PL	1 ' '''	4800339		66500
	WAVEGUIDE SUBASSY					C4800356			1	4800300		66600
۸	ANGLE CONN MOUNTING				İ	C4800357			MAR	4800300		66700
7	ANGLE CONN MTG RADIO					C4800358			MA R	4800300		66600
	STRAP NOISE SOURCE				]	C4800359			MAR	4800300		66900
_						B4800360			MA R	4800300		67000
۸	ANGLE COUPLER MOUNT				l	84800361			MA R	4800300		67100
4	BRACKET COUPLER MTG					C4800362			MAR	4800300	5	67200
A	CLIP WAVEGUIDE RADIO					84800363			MA R	4800300	5	67300
Ą	BRACKET TAPER MOUNT					K4800364			MA R	4800300		67400
4	CLIP RE CONNECTOR					C4800368			MA R	4800300	5	67500
d	SHIELD THERMAL ASSY				1	J4800376			MA R	4800300	اداه	67600
I	COVER HORN RADIOMETR						04800427		MA R	4800376	6	67700
- 1	SURFACE TREATMENT					1		A 90302	MA R	4800427	7	67800
T	15.86 ZZKMC CONT DWG					U4800377			MA R	4800300	5	67900
1	22KMC SW ASSY ENV		1		1	D4800378			MA R	4800300	5	68000
- 1	15KMC SW ASSY ENV					04800379			MAR	4800300	5	68100
A	ENV ELECT UNIT SUBAY		İ			04800380			MA R	4800300		68200
T	CONNECTOR INSTE						C 90314		MA R	4800380		68300
Q	SCHEMATIC		1			l l	D4800436		MA R	4800380		68310
प	MICROWAVE RADIOMETER							A4800436	MA R	4800436		68315
-	PRE-AMP SUBASSY ENVL		}			04800381			MA R	4800300		68400
-	DIRECTIONAL COUP ENVI					C4800382	<del></del>		MA R	4800300		68500
-	DETECTOR ASY CONT DW					84800383			MA R	4800300		68600
- 1	CONT DWG ISKMC FILTR			· <del>-</del>		84800386			MA R	4800300		68700
-	WAVEGUIDE SUBASSY 15					C4800387	j .		MA R	4800300		68800
-	CONT DWG 22KMC FILTR					84800388			MA R	4800300		68900
1	WAVEGUIDE ASSY 22					C4800395			MA R	4800300		69000
ŀ	WASHER SHLD INSULATE					84800416			MA R	4800300		69100
ı	INSULATOR 22KMC DET	i				B4800420			MA R	4800300		69200
-	INSULATOR ISKME DET					B4800421			MAR	4800300		69300
-	BRKT TUN FORK RADMTR	1	ļ			C4800423			MA R	4800300		69400
由	TUNING FORK INSULAT				<u> </u>	C4800423			MA R	4800300		69500
1	COVER PW CONN RADMIN	l	I			D4800428			MA R	4800300		
-+	SURFACE TREATMENT					D-000420	A 90302		MA R			69600
1	COVER SIGNAL RADIMTR	Ì	j			h	M 90002			4800428		69700
	SURFACE TREATMENT					D4800429			MA R	4800300		69800
				i		1	A 90302		MA R	4800429		69900
1	STUD RADIOMETER	ļ				B4800432			MA R	4800300	5	70000

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C#4.	TITLE	,		11.1	IV		i vi	VII .	REL. FOR MISSILE	NEXT	077.	SEQUENCE NUMBER
167.	1	·	"	"""	.,	l.		***	BERIAL THRU, SEE.	ASSEMBLY	COL.	HUMBER
	9W29 CABLE ASSEMBLY					C4900239			MA R	4800300	5	70100
	9W31 CABLE ASSY					34900241			MA R	4800300		70200
П	9W34 CABLE A					84900242	4		MA R	4800300	5	70300
A	9W30 INTERCONN SUBAY			1		14900247			MAR	4800300		70800
	CABLE ASSY 9W32 COAX					1	B+900243		MA R	4900247		70900
	CABLE ASSY 9W33 COAX			<u> </u>			849005544		MA R	4900247		71000
	CABLE ASSY 9W35 COAX						84900245		MAR	4900247		71050
8	ENVL 27A1 INFRA RED					D4900299			MA R	4800300		71200
	CONNECTOR INSTL			1	l		C 90314		MA R	4900299		71300
Ш	SHIM SWIVEL JOINT				B4800409		L		MA R	<u>4600408</u>		71400
	SHIELD SUN ACTUATOR			,	C4800410				MA R	4800408		71500
_	MIRROR FINISH			ļ <u>.</u>		A 90302	?	ļ	MA R	4800410		71600
	SPACER SUN SHIELD				B4800411				MA R	4800408		71700
	CABLING INSTALLATION			J4900256		ļ	ļ <u></u>		MA R	4100310		75300
	ZW4 COAX CABLE ASSY				84900232				MA R	4900256		75400
Ц	2W5 COAX CABLE ASSY				B4900233				MA R	4900256		75500
Н	ZW6 COAX CABLE ASSY				84900234				MA R	4900256		75600
Ш	9W1 CABLE INSTL				J4900252		<u> </u>		MA R	4900256		75700
	9WI KING HARNESS			l	l	J4900253			MA R	4900252		75712
$\sqcup$	9W1 TB1 TB ASSEMBLY					C4900271		ļ	MA R	4900252		75714
	9W40 WIRING HARNESS		į		l	04900272			MA R	4900252		75710
14	GUSSET TROUGH					C4900318			MA R	4900252		75718
١٦	SCREW MACH PAN HD				1		A 90347		MA R	4900318		7572(
4	SHIM TROUGH HARNESS		<u> </u>		ļ		M4900302	ļ	MA R	4900318		7572
11	HANGER TROUGH						M4900303			4900318		
L.	TROUGH SECTION ASSY		ļ		ļ		B4700304		MA R	4900318		75726
1 7	TROUGH SECTION ASST			ì			M4900305			4900318		7572
1	GUSSET TROUGH				ļ		ļ- · · - · · · - ·	04500311	MA R	4900305		75730
เว	SUSSET TROUGH				[		l	04900301 04900310		4900311 4900311		7573; 7573;
1-7	ROUGH SECTION ASSY		ļ ————									
17			ļ		1		1	M4500312	) 1	4900305		75736
Н	ADHESIVE					ļ	ļ	A . 700.91	MA R	4900312		75738
1 4	SUSSET TROUGH						1	C4900301		4900312		75740
1	GUSSET TROUGH				<u> </u>			C4500320		4900312		7574
1 4	TROUGH SECT ASY BAYS		}	1	1	1		P4900313		4900305		7574
L#	TROUGH SECTION ASSY			1	ļ	ļ		4900300		4900313		75746
1 7	TIE PLATE TROUGH		l		İ			M4900309		4900300		75748
ĻĄ	GUSSET TROUGH CONNECTE BEKT TROUGH		ł	+	<del> </del> -		ļ	<u>1.4500301</u>		4900313		75750
1.3			[	1	İ			K - Y 00 3 0 8		4900313		75752
4	GUSSET TROUGH			1	L			Surco±19	MA R	4900313	8	7575

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				T	T	ĺ			REL. F	OR MISSILE		1	
	TITLE		"	131	IV	٧	ΥI	V11	SERIAL		HEXT ASSEMBLY	COL.	SEQUENCE NUMBER
4	TROUGH SECTION ASSY	<del></del>	<del>-</del>	+	†			M4900314			4900305	17	7575
ı	ADHESIVE							A 20091	MA	R	4900334		7575
ı	ROUGH SECTION ASSY			+				শ্ব্ৰত ব্যৱহা	MA	₹	4900314	18	7576
١	GUSSET TROUGH			Ť				14:00:01	MA	H	4900314	6	7576
ı	ROUGH SECT ASSY		· · ·		<u> </u>		<u>74778831</u> 5	i	MA	R	4900305	6	7576
ł	TROUGH SECTION ASSY			İ				M4900100	MA	R	4900315		7575
١	GUSSET TROUGH							1.0200443	MA		4900315	ਇ	757
	CONNECTR BRKT TROUGH							14700108		R	4900315	8	757
١	TROUGH SECTION ASSY		İ	1				M4400319		H	4900305		73
١	TROUGH SECTION ASSY			Ì	1			M4900000		R	4900316		75.71
۱	GUSSET TROUGH		I					M4400301	MΑ		4900316	8	757
	STRAP TROUGH HARNESS			1			B4900307			R.	4900318		757
ı	WIRING HARNESS 9W21				04900255			i		۹ .	4900256	4	756
ı	WIRING HARNESS 9W2			1	U4900258				MA		4900256	4	759
	WIRING HARNESS 9W3		[		D4900259				MI	1 1	4900256		760
	SPACECRAFT CABLING				H4900260		İ			R	4900256		761
	WIRING HARNESS 9W4				#4900261				ΜA	R	4900258	4	762
	9W5 WIRING HARNESS			ł	U4900262		-		MΑ	F.	4900256	4	763
	WIRING HARNESS 9W6				P4900263		1		MA		4900256	4	764
	WIRING HARNESS 9W7				U4900264					R	4900250		7 <b>5</b> 5
	WIRING HARNESS 9W8				D4900265		1		MΔ		4900256		76.6
	WIRING MARNESS 9W9		l		U4900266		1		A,Μ		490025€		767
	WIRING HARNESS 9WZO				J4900268				MA		4900256		769
	WIRING HARNESS 9W22		l		C4900269		!			R	4900256		770
	WIRING HARNESS 9W23				04900270		Ī		MA		4900256		7.1
	WIRING HARNESS 9W14				C4900273	1	1		МΑ		4900256		772
	WIRING HARNESS 9W24				D4900274		1		MΑ		4900256		773
	CONNECTOR BRKT LEG A			1	K4900321		1 .		MA	1	4900256		774
	CONNEC OR BRKT LEG C			1	C4900382		1	i	MΔ		4900256		775
	FACKAGING ASSEMBLY			U4900501		<u> </u>	<u> </u>		MA		4100310		776
	CREW QUIN LOCK				90252		i		MA		4900501		111
	CABLE RETAINING BRKT		L	1	D3158674	1	1		MA		4900501		778
١	*PONDER CAVITIES ZAS		I		<u>6812416</u>		1	' '	MA		4900501		779
	CABLE DETAILS		[			13172209			MA		3172189		780
	XPONDER CAVITIES ZAS		Ī	1	[	.4600008			МД		3172189		781
	BRACKE1						k3170190		MA		4600008		782
	HOUSING ASSY				T		D+600001		MM.	₹	4600008	6	783
	COVER CATHODE SECT				1		1	[4600504]	MA		46000001	7	784
ł	COVER PLATE SECT				T		1	44 131.55	MA	5	4500001	7	7850
J	SHIELD CATHOD: SECT				1		1	Lacharae	MΑ	¥	4600001		786

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_	AWING LIST, OFFS	ET	CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARTINER R 62 PAGE 21										
**	TITLE	1	11	111	Ι¥	v	VI	VII		RMISSILE	NEXT ASSEMBLY	017.	SEQUENCI
4	SHIELD PLATE SECT		†		<del> </del>	<del></del>		C460000	MA	THRU, SER.		COL.	HUMBER
4	HOUSING CATHODE SECT						ļ	04600073		YI 1	460000		787(
4	HOUSING PLATE SECT						<del> </del>	04600074			460000		7880
4	TERMINAL		l	l	1		8460001		MA	1 1	460000		7890
4	TERMINAL			-	1		8460001		MA		460000		7900
4	TERMINAL INSULATOR		ļ į				8460001		MA	1 1	450000		7910
-1	GROUND PLATE						8460001	5	MA		460000		792
4	B ROD INSULATOR					1	B460001		MA F	1 1	460000		793:
-	B ROD INSULATOR						B460001		MA F	1	4600000	_	7940
_	B ROD				ł	1	8460001		MA A	'I I	4600008	1 -1	7950
	OUTPUT PROBE				<del></del> -	<del></del>	B460002		MA		4600008		7960
⅃.	F-2 PLATE INSULATOR				ł	i	B460002		MA R				7970
	F-I PLATE INSULATOR						B460002		MA B	1 1	4500008		7980
	K-PLATE INSULATOR		i		l	ļ	B460002		MA R	1 1	4600000	1 1	7990
7	B ROD				<del></del>	<del></del> -	B460002			1	4600008		8000
1	INSULATOR		1			1	B460002				4600008	1 -	8010
T	B ROD SLEEVING				<del></del>				MA R	1 1	4600008		802(
	TUNING PROBE		1		İ	1	B4600026		MA R		4600008		8030
A	CATHODE TAP FEMALE						B460002		MA R		4600008		8040
	F 2 PLATE		ŀ		ì	1	B4600028		MA R	I I	4600008		8050
Al-	K-PLATE						C4600029		MA R	LL	4600008	6	8060
A	F-1 PLATE		Į.				C4600030		MA R		4600008		8070
$^{+}$	CATHODE TAP MALE		<del>-</del>				C4600031		MA R		4600008		8080
1	LINE PLATE INSULATOR					1	C4600032		MAR	i I	4600008		8090
╁	GROUND PLATE INSERT						C4600033		MA R		4600008		8100
1	F-2 INSERT	1	}			i	B4600034		MA R		4600008	6	8110
	K PLATE INSERT						B4600035		MA R		4500008	6	8120
	SCREW INSULATOR	1					B4600036		MA R		4600008	6	8130
╁	LINE PLATE INSULATOR						B4600037	1 1	MA R		4600008		8140
	LINE PLATE	i	- 1				B4600038		MA R		4600008		8150
	GROUND PLATE					1	K4600039		MA R		4600008		8160
				Ī			C4600040		MA R		4600008		8170
7	THERMAL COMPENSATOR				_	1	K4600041		MA R		4600008		
1	TUNING PROBE HOUSING	Ī					1	C4600042	MA R		4600041	7	8180
9	TUNING PROBE THERMAL						l	C4600043	MA R		4600041	7	8190
1	DRIVE SHAFT THERMAL							84600044	MA R		4600041	7	8200
	TUNING PROBE INSULIR		İ	ļ				84600045	MA R		4600041	7	82100
	RETAINING PIN					1		B4600046	MA R		4600041	-4-	8220
1_	APONDER CAVITY SCHEM		1	ŀ			D4600152	2.333046	MA R				82300
	TEE CONNECTOR					C4600330			MA R		→600008	6	82400
Ŀ	STRAP	- 1	1	ľ		B4600331			MA R		3172189	5	82500
_						P . O O O O O O O			THA K	,	3172189	5	8260

	RAWING LIST, OFFS	ET		JET PRO LIFORNIA INS MARINE	22	4-12-5	_					
	TITLE		н	rai	IV	٧	VI	VII	REL. FOR MISSIL	- NEXT	0 .	SEQUENCE NUMBER
1.7	ACCELEROMETER 7A3				J4100200				MA R	490050I		82700
14	CUP POTTING			!	J4200033	3	1		MA R	4900501		828Ci
П	STUD LOCK FEMALE					90190			MA R	4200033	5	82900
Н	MALE LOCK ASSY					B 90312			MA R	4200033	5	83000
П	CONNECTOR INSTALL			1		B 20313			MA R	4200033		83:00
Н	CLAMP					C 90314			MA R	4200033		83200
В	SCHEMATIC	ľ				C3158594			MA K	4200033	5	93300
H	TRANSIPAD INSTALL					D4200025	1 1		MA R	4200033	5	83400
Ιí	ART WORK CB2	l		ļ		j	90127		MAR	4200025	6	83500
18	СВ					17.700071	D4200037		MA R	4200025	6	83600
Н	TRANSIPAD INSTALL			1	1	U4200034			MA R	4200033	-5	83700
A	ART WORK CBI						A 90303		MA R	4200034	6	83800
Α	CB	1				D4200036	D4200035		MAR	4200034		83900
В	SUBCHASSIS					U4200038			MA R	4200033	5	84000
	PIN LOCATING		ļ			4200030	B 90089		MAR	4200033	5	84100
-1	CONNECTOR INSTALL				<del> </del>				MA R	4200038	6	84200
벽	CELEST RELAYS 7A19	Į.			04200053		C 90314		MAR	4200038	- 1	84300
T	ADHESIVE				7.200033	A 90091			MA R	4900501	4	84400
- 1	RESIN	- 1				A 90099			MA R	4200053	5	84500
Ţ	SCREW LOCK MECH					B 90312			MA RI	4200053	5	84600
	CONNECTOR INSTALL		Ī			90314	i	!	MA R	4200053		84700
7	SCHEMATIC DIA				!	04200045			MA R	4200053	5	84800
9	TRANSFORMER		I			B4200046		1	MA R	1	5	84900
	CB1					04200048			MAR		5	85000 85100
	SCHEMATIC DIA	1			1 1		04200045		MA R	4200048	5	85200
	CB2				1		74200050		MA R	4200048		85300
7	TRANSIPAD				)	04200049		1	MA R			85400
d	PC iB2	1					90303		MA R	4200049	2	85500
	JCHEMATIC				1	Į.	14200051		MA R	1 - 1	6	85600
	SUBCHASSIS ASSY						4500045		MA R		<u>- 18</u>	85700
7	TRANSFORMER				! I	04200052		ŀ	MA R			85800
٦	TRANSFORMER					34200348			MA R	4200053	<del>-</del>	85900
	GYRU CONT. SUBASY 7AZ			_		34200370			MA R	4200053	5	86000
a	SUBCHASSIS GYRO				U4200300				MA R	4900501	4	86010
	CAPACITOR SUBASSY 1					14200301	1		MA R		5	86016
٦	ENCAPSULATING CAP	1			F	74200302	·		MA R	4200300		86018
	ENCAPSULATING CAP						4201038		MA R	4400302		86020
d	CAPACITOR SUBASSY #2	1	1				4201038		MA R	4200303		86024
1	THE TIEST SUBMISSI WE			_		4200303			MA R		5	86025

			LABORA			DATE LISTED
CAI	MAR I NER		THOCOGY, PASAG	Paul	2.3	4-12-63
 		1V	V	γI	V11	REL. FOR MISSILE

,	AWING LIST, OFFS				ly .		vi vii	REL. FOR MISSILE	HEXT GFF.	SEQUENCE
l	TITLE	1	11	"		1		MA Q	4200300 5	8602
ŀ	STANDOFF SPACER #1					84200304				8602
1	STANDOFF SPACER #2					84200305		MA R	4200300 5	
L	CBI ASSY					J4200306		MA R	42000005	860
	CB1 GYRU CONTROL		ļ	1	1		A4200306PL _	MA R	4200306 6	8603
L			<del> </del>	1			J4200307	MA R	4200306 5	8503
			Į.		1	J4200308		MA R	4200300 5	d 50 3
L	CB 2 ASSY						44230308PL	MA R	4200308 6	8663
l	CB2 GYRO CONTROL			1	i i	1	14200309	MA R	4200308 6	5604
	CB 2 PRINTED CIRCUTY					J4200310		MA R	4200300 5	8604
١	CB 3 ASSY		1	1	ľ	0 .5000.0	A4250310PL	1 MA R	4200310 6	8604
1	CB3 GYRO CONTROL		· <del> </del>				4200311	MA R	4200310 6	8604
١	CB 3 PRINTED CIRCUIT			1	1	J4200312		MA R	4200300 5	3604
l	CB4 ASSY					1 200320	1,4200:11	MA R	4200312 6	8605
l	CB4 ASSY			1		1	A4200312	MA R	4200312 6	8605
١	CB4 GYRO CONTROL			+		<del> </del>	fjažšťoky — · ·	MA R	4200312 6	8605
Ī	CB4 PRINTED CIRCUITY		1		i	U4201035		MA R	4200300 5	8601
۱	SYRO CONTROL SCHEM			-		A4201036		VA R	4200300 5	8605
i	ENCAPSULATING CAP			i		8420103		MA R	+200300 5	8605
l	SLEEVE INSULATOR					8420104		- V4 R	4200300 5	860
İ	WASHER INSULATOR			1	i	8420104	1	MA R	4100300 5	8606
1	SLEEVÉ INSULATOR					B420104		M4 9	4100300 5	8606
١	WASHER INSULATOR		i	1			4	MA R	4900501 4	8610
1	SW AMPL LOGIC 7A18				0420035		<del></del>	MA R	4200351 5	862
	ADHESIVE				i	A 9009		F AN	4200351 5	
	STUD LOCK					b 9031		MA R	4200351 5	
	CONNECTOR INSTALL		i i	1		C 9531		MA P	4200351 5	865
	SWITCH AMPL SUBCHASS					0420035			4200351 5	8661
3	CKT BO I ASSY SW AMP		1	i		J420035		MA R	4200352 6	
	ADRESIVE					J	<u> </u>	MA R	4200352 6	
-	TRANSIPAD			1	1	1	A 90121	MA R	4200352 6	
	TRANSIPAD						4 90:03	MA R	4200352 6	+
	SCHEMATIC DIA			1		i	D4/100325	MA R	4200352 6	1
	CB1 SW AMPLEIR LOGIC	1					. A42 2015 2PL	1010	1 4200352 6	+
	LAT PC SW AMPLELOGIC		T				4 100353	MA R	4200352	
F	CKT BO SW AMPL					J420035			4200351 5	
F	CB2 SW AMPLFIR LOGIC	i i				Į.	A+200554PL	MA R	4200394 6	1 1
	CB2 PC SW AMPLIFIER	İ	ŀ				<u>[247 0.035 7]</u>	MA RI	4200394 6	676
_	CKT BD 3 ASSY SW AMP	<del> </del>			1	C410063				·
	TB SW AMPLETER LOGIC		-	1			<u>  Kakoosas                                   </u>	MA R	4200639 5	
	CRASW AMPLETER LOGIC					C420064		YA R	4200351 5	878
	THE SW AMPLETIES LOST		1			1	134. CONSM	MA R	4200640 6	879

	WING LIST,	0.5.55	FΤ			UTE OF TECHN	LABORAT OLOGY, PASADE		24	DATE LISTED 4-12-63	
CT.	TITLE	- 1	,	u	111	ī¥	Y	VI .	VII	REL. FOR MISSILE SCRIPT THRU, SER.	_

RAWING L	NG LIST, OFFSET												
				101	ī¥	v	VI	VII		MISSILE	NEXT ASSEMBLY	gra.	SEQUENCE NUMBER
117	LE	'	II.	""	., .,	1			MA R	тиви, БЕЯ.	4200351		880.5
CK1 80 5 3	SW AMPL					C4200641			MA R		4200551	6	85.1
	_FIER_LOGIC						(6/10623		MAR		4900501	<del> -</del>	85.3
A LAUNCH CO.	NITER 5A2			i i	04200503				VA R		4200503	5	8840
SCREW QUI'	TLOCK					B 90252			WA R		420050	-	8850
STUD LOCK						3 90312			VA R		420050	- 51	856
CONNECTOR	INS'L	l				00314			-    हिन्द   R	<del></del>	420050		587
STRAP REL.	AY					13158989	1 :		Sa R		420050:	. 5	888
RELAY STR	AP	1				24200160			- TATE		420050		-659
SCHEM LAU	NCH COUNTER					U4200500			MA R		4200503		590
CB1 ASSY	LAUNCH CNTH					<u>U420020</u>	# - 93173	ļ <i>-</i>	+ MA		4200501		-851
TERMINAL							A 9012	İ	VA R		4800501		892
TERMINAL	ļ				_		D3:50546		MA R	1	420650.	1 6	693
	GNETIC COPE						M4200701	r.	MA R		-200501		894
CB1 LAUNC				L			14200505	1	MA R		14200501		E95
CRI PC CA	DNCH CODAIN			ì	1	L420050	1 4600 00		NA P		4200503		896
CB2 ASSY	LAUNCH CIR			J.,		C4 E C C D	h 193127		<u>V.5</u> A		4200502		897
TRANSIPAD	INST			1	i	i	A 90306		MA -		4200502		898
TERMINAL							53158596		Ma F		4200502		899
HOLDER MA	GNETIC CORE						L4200200		VA F	4	4200502	6	900
SCHEM LAU	NCH COUNTER						44,750507		HA F		4200502		961
CB2 LAUNC							D-200568		MA F		4200502	2 6	902
	UNCH COUNTR			-L		p420050	1-100.2	1 -	VA F	ş <del> </del> -	4200503	3 5	903
	LYONCH, COOL				0420051			i	MA	4	490050		904
CENTRAL C						B 903I	بالمو	+		7	4200513	3 5	905
STUD LOCK			ì	1	1	6 9031		i	V.A, F	۲	4200513	3 5	906
CONNECTOR						J420051			MA 3	₹	420051	3 5	90
	LOCK SCHEM			i	1	J420051			MA i	₹	420051		908
	CENTRAL CLA		ļ <del></del>	-}		- F	Ты тчеци		- V Z - (	२	420C51		30.6
RANSIPAE		i		1		1	k 9525.	d .	M.E.	4	420051		910
SCREW QU!			ļ <del></del>				A 9636:	3	MA.	R	420051	1 6	91
RANSIPAL			1			1	B31567.		MA	κį	420051	1 6	917
	CRYS MOUNT		ļ				E315891		VA.	Ři	+20051	1 6	91.
CRYSTAL	. ACK COULS	1		1	İ	1	[42005]		MA	₹	420051	1 6	913
	LOCK SCHEM	1	ļ			-+	542c051		MA	R	420051	1 6	91
CBI CENTE		1		1		1	J4. 0051		МА	۹į	420051	1 6	91
	ENTRAL CLOCK	<u></u>	ļ			J420051	7	- 1	MA.	R	420051	3 5	91
	CENT CLOCK		1		1	1	Ta 16.2	-		R	420051	2 6	91
RANSIPAL		ļ	ļ	+			<u>- ≨====================================</u>	3,	MA	۹,	420051		91
TRANSIPA					- 1		B3.5857		/ A		420051		911
q HOLDER MA	AGNETIC CORE	t											PL 0514 J

JPL 0514 JUNE 61

_			CA		TITUTE OF TECH	NOLOGY, PASA	DENA, CALIF. PAGE	25	DATE LISTED			
_	AWING LIST, OFFSE	Т		,			, not		4-12-63			
	CENTRAL CLOCK SCHEM	t	11	111	14	٧	AI	AII	REL. FOR MISSILE	NEXT ASSENBLY	OFF.	SEQUEN
1	CB2 CENTRAL CLOCK						J4200510		MA R	4200512	6	920
4	CB2 PC CENTRAL CLOCK			<b>├</b> ──			A4200512PL		MA R	4200512	6	921
1	SUBCHAS CENTRAL CLCK						J4200516		MA R	4200512	6	92
†	MANEUVER CLOCK 5A4			<del> </del>	0/20050	D4200514	<u> </u>		MA R	4200513	5	92
ı	SCREW QUINTLOCK			Ì	D420052	1	1		MA R	4900501	4	92
t	STUD LOCK			<u> </u>	<del></del> -	B 90252			MA R	4200523	5	92
l	CONNECTOR INSTL			1		B 90312	1 1		MA R	4200523		92
t	STRAP RELAY					C 90314 B3158938			MA R	4200523		92
	MANEUVER CLOCK SCHEM				1	J4200520		- 1	MÀ R	4200523		92
	CBI ASSY MANEUV CLCK			<u> </u>	+	J4200520			MA R	4200543		92
	TRANSIPAD INSTL			J		34200521	A 90127	- 1		4200523		93
	HOLDER ASSY MANEUVER			<del></del>	<del></del> -	<del></del>	04200138		MA R	4200521		93
	ADHESIVE	f			ŀ		D-1200130	90091	MA R	4200521 4200138		93.
	MANEUVER CLOCK SCHEM				1		J4200520	70071	MA R	4200521		93
	CB1 MANEUVER CLOCK						A4200521PL		MA R	4200521		937
	CBI PC MANEUVER DUR				1		14200525		MA R	4200521		93
	CB2 ASSY MANEUV CLCK	_		ļ		J4200522		1	MA R	4200523		93
	TRANSIPAD INSTL						A 90127		MA R	4200523		938
	HOLDER MAGNETIC CORE					1	D3158596		MA R	4200522		939
	MANEUVER CLOCK SCHEM						J4200520		MA R	4200522		940
_	CB2 MANEUVER CLOCK				1		A4200522PL		MA R	4200522		94
	PC CB2 MANEUV CLOCK	1					J4200526					94;
	SUBCHASS MANEUVER				L	04200524		i		4200523		94:
	ADDRESS REGIS 5A6	- 1			D4200533					4900501	4	941
	STUD LOCK					B 90312			MA R	4200533		945
	CONNECTOR INSTL RELAY STRAP		1			C 90314						946
	ADDRESS REG SCHEM					C4200168			MA R	4200533		947
	CB1 ASSY MANEUV OUPT		i			J4200530			MA R			948
	TRANSIPAD					J4200531			MA R	4200533		949
	ADDRESS REG SCHEM		j			i	4 90303					950
	Col AUDRESS REGISTER	+			+		J4200530			4200531	-,	951
1	CRI BC WD COLLACT	-			] !		44200531PL			4200531		952
	CB2 ADDRESS REGISTER				+	11 2	14200535			4200531	6 9	953
	TRANSIPAD	1			1	J4200532					5 9	954
- 1	SCREW QUINTLOCK				<b>├</b> ──		90127 3 90252			4200532		955
,	ADDRESS REG SCHEM											956
	CB2 ADDRESS REGISTER		<u>+</u>		† <del></del>		J4200530 44200532PL					957
ć	CB2 PC MP OUTPUT				1 1		14200532PL					958
-	<del></del>					f	772UUJJ0	I.	MH KI	4200532	6 9	959

DRAWING LIST, OFFSET  JET PROPULSION LABORATORY  CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.  MARINER R 62  PAGE 26  4-12-63													
LEI.	TITLE	ı	11	01	19	v	VI.	AII	REL. FOR	THRU, SER.	NEXT ASSEMBLY	err.	SEQUENCE NUMBER
В	"SUBCHASSIS ADD REG   MANEUVER DURAT 5A5				D4200543	D4200534			MAR		420053	3 5	9600
T	STUD LOCK				D4200343	C 90312			MA R		490050		9610
J	CONNECTOR INSTL				1	90314			MA R	1 1	420054		9620 9630
3	MANESVER DUR SCHEM CB1 ASSY MANEUV DUR				1	U4200540			MAR		420054		9640
7	TRANSIPO INSIL					U4200541			MA R		420054		9650
ı	TRANSIPAD INSTI						A 90127		MAR		4200547		9660
+	TERMINAL						A 90303		MA R		4200541		9670
d	MANEUVER DUR SCHEM						A 90306 J4200540		MA R		420054		9680
d	CB1 MANEUVER DURATON				<del></del>		A4200541P	<del>,</del>	MA R		4200541		9690
4	CB1 PC MANEUV DURAT	_ [			1		J4200545		MA R	i	4200541 4200541		9700
٩	CB2 ASSY MANEUV DUR					J4200542			MA R		4200543		9710 9720
	TRANSIPAD INSTL						A 90127		MA R		4200542		9730
1	MANEUVER DUR SCHEM						A 90303		MA R		4200542		9740
7	CB2 MANEUVER DURATON						J4200540		MA R		4200542		9750
٩	CB2 PC MANEUVER DUR						A4200542P	L	MA R		4200542	6	9760
4	SUBCHASS MANEUVER				+	D4200544	J4200546		MA R		4200542		9770
9	INPUT DECODER 5A7		İ		04200553	04200544	1		MA R		4200543		9780
ļ	STUD LOCK					8 90312			MA R		4900501		9790
ļ	CONNECTOR INSTALL				1	C 90314			MA R	ļ	4200553		9800 9810
1	INPUT DECODER SCHEM CB1 ASSY INPUT DECOD					J4200550			MA R		4200553		9820
1.	TRANSIPAD INSTE					J4200551			MA R		4200553		9830
	TRANSIPAD INSTE		1			1	90127		MA R		4200551	6	9840
	INPUT DECODER SCHEM						90303		MA R	- 1	4200551	6	98500
1	CB1 INPUT DECODER	İ	-				14200550	T	MA R		4200551		9860
Ī	CBI PC INPUT DECODER						14200551P		MA R		4200551		9870
1.	CB2 ASSY INPT DECODE				1 1	14200552	14200223	1	MA R		4200551		9880
	RANSIPAD INSTL					20112	90303		MA R		4200553 4200552		98900
	INPUT DECODER SCHEM				1 1		14200550	1	MA R		4200552		99000
	CB2 INPUT DECODER CB2 PC INPUT DECODER	1	1			4	4200552PI		MA R		4200552		99200
	SUBCHAS INPUT DECODE						14200556		MA R		4200552		99300
	XFORMER RECT 5A8		-			04200554			MA R		4200553		99400
	SCREW QUINTLOCK				D4200563				MA R		4900501		99500
	STUD LOCK				[	90252	1		MA R		4200563		99600
	CONNECTOR				† <del></del> [	90314			MA R		4200563		99700
1	XFORMER PWR CONVERTE				1 6	34200263		- 1	MA R		4200563		99800
_					<u> </u>	.00203			nin it		4200563	5	99900

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	orre			MARINE	R R 62		P.A.	GE 27	4-	12-63			
-	AWING LIST, OFFS	<u> </u>				1	ΥI	VII	REL. FOR	MISSILE	NEXT	ort.	SEQUENCE HUMBER
CHE.	TITLE	.	11	· m	IV	٧		1	SERIAL	THRU, SEB.	420055	COL.	
14	CB2 XFORMER RECT					04200557	A420055	70	MAR MAR		420055		100000
ᄖ	CB2 TRANSFORMER RECT			<b></b>			J420055		MA R		420055		
[ 4	CB2 PC XFMR RECTIF XFORMER RECT SCHEM				1	1	0420056		MA R		420055		100300
14	TRANSFORMER SCHEM			<del> </del>	+	D4200560			MA R		420056	3 5	100400
1 4	CB1 XFORMER RECT!FER			ļ	1	D420056	.		MA R		420056		
1-3	CBI TRANSFORMER RECT			· -			A420056		MA R	1	420056		
18	CB1 PC XFMR RECTIF			ļ			،42005€	2	MA R		420056		100700
8	SUBCHAS XFORMER RECT					04200564			MA R		420056 420056		100800
	BRACKET DIODE XMFR					B4200565			MA R		420056		101000
Α	STRAP RELAY CC&S			1		C4200566 B420056		1 1	MA R		420056		101100
L	INDUCTOR XMFR RECT			<del></del>	<del>- </del> -	84200568			MA R		420056		101200
Ι.	INSULATION BD XMFR INDUCTOR BRKT XFORME			İ	i	84200569		1	MA R	2	420056	3 5	101300
12	END COUNTER SA3			+	D420057				MA R	1	490050		101400
١٩	GUINTLOCK STUD			1		B 90252	2		MA R		420057		101500
$\vdash$	STUD LOCK			1	1	B 9031			MA R	1	420057		101600
	CONNECTOR INSTE					C 90314			MA F		42005		101700
-	STRAP RELAY CCES					C315892			MA F	1	42005		101900
	SUBCHASS END COUNTER					0420053			MA F		42005		102000
[ 0	CB1 ASSY END COUNTER				İ	J4200531	A 9012	7	MA F				102100
L	TRANSIPAD INSTAL			<del></del>		<del></del>	A420053		MA F				102200
, E	CB1 END COUNTER IM1 TRANSFLUXOR			1			A-120033	B3152616	MA F	١			102210
1	TM2 TRANSFLUXOR						1	B3152617	MA F	₹			102215
1 6	HOLDER MAGNETIC CORE		ĺ		İ		0315859	6	MA F				102300
1	END COUNTER SCHEM		İ				J420057	0	MA F		42005		102400
	CB1						1420057	1	MA F		42005		102500
1	CB2 ASSY END COUNTER					U420053			MA F		42005		
L	IRANSIPAD INSTAL					_	A 9012 A420053			R	42005		102800
ŧ	CB2 END COUNTER			ı	i	ļ	U420057		MA I		42005		102900
	END COUNTER SCHEM CB2 PC END COUNTER		ļ	<b>-</b>			J42005			R	42005		102910
- 1.1	END COUNTER SCHEM						J420057		1	R .	42005	73 6	103000
H	CB1 END COUNTER		<del>                                     </del>	1		A42005 /			1	R	42005		103100
-13	TM1 TRANSFLUXOR						8315261		1 ' ' ' ' '	R	42005		103110
H	TM2 TRANSFLUXOR						8315261	1	1	R R	42005		103200
- 12	CB2 END COUNTER					A420057	B315261	14		R	42005		103210
	TM1 TRANSFLUXOR					1	B315261			R	42005		103215
- 1.5	TM2 TRANSFLUXOR		<del></del>				3,		·				PL 0814 JUNE 61

ANNUAL LIST OFFI	: <b>T</b>			PULSION ITUTE OF TECHNO R R 62			28	DATE LISTED 4-12-63			
AWING LIST, OFFSI		n	ın	IV	٧	VI	AII	MEL. FOR MISSILE SERIAL THOU, SER.	NEXT ASSEMBLY	off.	SEQUENCE
TRANSFLUXOR IMIO				<del> </del>		B4200558		MA R	4200573		10325
TRANSFLUXOR TM7				1		B4200574		MA R	4200573		10325
TRANSFLUXOR IMB						B4200575		MA R	4200573		10330
TRANSFLUXOR TM9						B4200576		MA R	4200573		10340
PYROTECHNIC CONT BALL				U4200580		1		MA R	4900501		10350
ADHESIVE					A 90091	L_		1 . 1	4200580		
RESIN					A 90154			MA R	4200580		10380
STUD LOCK FEMALE					B 90312	L		1 1 1	4200580		
CONNECTOR INSIL					90314			MA R	4200580		10400
SCHEMATIC DIAGRAM					J4200419						
CBI ASSY PYROTECHNIC					D4200581				4200580 4200581		10410
SCHEMATIC DIAGRAM			Ì			U4200419		MA R			
TBI PYROTECHNIC CONT					į	D4200578	00-	MAR	4200581		10430
ADHESIVE			[	1		Į A	90091		4200578		
CB2 PYROTECHNIC CONT					D4200282			MA R	4200580		
ADHESIVE				İ		A 90091		MA R	4200582		1046
TRANSTPAD						A 30153		MA R	4200582		
SCHEMATIC DIAGRAM	- 1					U4200419		MA R	42C0582		
CB2 PC PYROTECHNIC						U4200579		MA R	4200582		
PYROTECHNIC CONT CB2					l	A4200582P	<u> </u>	MA R	4200582		
BLOCK RELAY PYROTECH					K4200584			MA R	4200580		
SUBCHASS PYRO CONT			ļ		J4200585			MA R	4200580		
CB3 ASSY PYROTECHNIC					C4200618			MA R	4200580		1053
SCHEMATIC DIAGRAM				1		J4200419		MA R	4200618		
TB3 PYROTECHNIC CONT					İ	C4200617		MA R	4200618		
ADHESIVE						^^	90091		4200617		1056
TBS PYROTECHNIC CONT					C4200619			MA R	4200580		
ADHESIVE			l			A 90091		MA R	4200619		
CB4 ASSY PYROTECHNIC			Г		C4200626			MA R	4200580		
SCHEMATIC DIAGRAM						U4200419		MA R	4200628		
TB4 PYROTECHNIC CONT						C4200627		MA R	4200628		
ADHESIVE			i		i	Y	9009		4200627	7	1062
CB6 ASSY			1		C420063	7		MA R	4200580		1063
SCHEMATIC DIAGRAM				1		U4200419		MA R	4200637		
THE PYROTECHNIC CONT						C4200636		MA R	4200637		1065
CB #1 PYROTECH CONT	- 1				D420064			MA R	4200580		1066
SCHEMATIC DIAGRAM						U4200419		MA R	4200649		
TERMINAL BOARD 7	į				1	C4200648		MA R	4200649		1068
SPACER PYRO!ECHN!C					8420065	5		MA R	4200580		1069
COVER ALIGNMENT			1	C4200643	2			MA R	4900501	4	1070

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:	TITLE	,		121	19		VI VI	VII	REL. FC	R HISSILE	NEXT ASSEMBLY	0,,,	SEQUENCE
7	TRANSPONDER 241		ļ				ļ		BERIAL		ı	¢o.	SEQUENCE
7	SUBCHASSIS XPONDER			•	D4300187			1 .	MA		4900501		10710
7	XPONDER SUBASSY		ļ			D4800040			MA		4300187		10720
-	OSCILLATOR RADIO					F0120123		L		R I	4300187		10730
+	COIL RADIO FREG				<del></del>		F0120148		MA I	<del></del>	120123		
1	CHASS ELECT EQUIP			1				C2420841	MA I	1 1	120148		10750
$^{+}$	BLOCK MTG YCO TI							F2720100			120148	7	10760
	AFORMER RADIO FREG				j	)	l	B4620136			120148		10770
+	BLOCK MIG SMALL VCO							C2420142			4620138		10780
ı	BLOCK MTG SUBASY VCC		1				i	C4620101			4620138		
1	XFORMER RADIO FRED							C4620863			120148		10800
1	XFORMER RADIO VCO T3		1		1			C2420143			4620863		
Ť	XFORMER RADIO VCO 14		<del> </del>		<del></del>	-		C2420144			4620863		10820
1	XFORMER RADIO FREQ		1					C2420145			4620863		10830
t	XEMR RADIO FREQ VCO							C2420147 C2420864			4620863		10840
ı	BLOCK MTG VCO		l l		<b> </b>				MA F	1 1	4620863		10850
t	CRYSTAL UNIT QUARTZ							C4620861 C4822700	MA F		4620863		
	HOLDER CRYSTAL UNIT		1		İ			C1520206			120148	1.4	10870
†	DSCILLATOR PADIO				·			F6320806			4822700		
1	CONVERTED FREG ELECT						00120170		MA F	1 I	120148		10890
1	BLOCK MIG SUBASSY							80120834	MA F	`	120123		10900
ı	XEMR RE FREQ		l l					C2420836			120170		10910
1	COLL RE FREG CONVERT		+		1			C2420837	MA F		120834		
ı	AFMR RAD FREQ CONVER				1						120834 120834		10930
T	BLOCK MIG FREQ		7					C4620135		+	120834		10940
1	FREG CONVERTER LOWER				1 1			C0120855		ו וי	120034		
T	XEMR RADIO FREQ		-}					C2420382			120110		10960
	BLOCK MOUNTING DIGDE				!			D4620223	MA B		120055		10970 10980
Ĺ	FREO CONVERTER SUBAY							D0120856			120170		10990
L	COIL RADIO FREQ							B2420384	_MA_R		120110		11000
1	CONTACT EL MIXER							C3920222	MA R	1	120856		11010
	RETAINER THREADED				į l	1					120170		11020
ĺ	GROMMET METALLIC		T						MA R		120170		11030
L	BRACKE: RETAINER							D0720262	MA R		120170		
	COVER DUST							D1520279	MA R		120170	7	11050
	XEMR RADIO FREQ					- 1		C2420381	MA B		120170	7	11060
	XEMR RADIO FREG							C2420383	MA R		120170		11070
	CHASS ELECT EQUIP							F2720132	MA R	1 1	120170		
l	CHASS ELECT EQUIP							F2726593	MA R	+	120170		
ı	CONTACT ELEC MYR LWR		1		1 1	I		C3922745	MA R		120170		11100

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П							,						
C#4.	TITLE		11	111	IV	٧	Vt.	VII		THEU, SER	NEXT ASSEMBLY	CC.	SEQUENCE NUMBER
Н	RETAINER SEMICONDUCT				+	<del> </del>		34220224			120170		
	CONVERTER FREQ SCHEM					i		6320802			120170		111100
$\Box$	TUNING ASSY		<del>                                     </del>	<del> </del>	<del>                                     </del>			37720835					111300
	FORM COIL							37420838			7720835	1	111100
T	FILTER LOW PASS			<del> </del>	+		00120173		MA				111500
	FILTER SUBASSY LOW		1					30120168					111600
+	BLOCK MIG		<del> </del>		<del> </del>			4620122			120168		
1	CAPACITOR FIXED PLAS		1		ŀ	l		00820219					111800
-	INSULATOR PLATE		<del> </del>	<del> </del>	<del></del>			31420136			120173		
	CHASS ELECT EQUIP				1			2720121					
7	BLOCK MTG			<del> </del>	<del></del>			4620122					112000
. 1	BLOCK MIG XEMR		1		1			4620316					112200
	FILTER LOW PASS		···-					6320805	MA		120173		
1	OSCILLATOR RADIO			ł			00120175		MA F		120123		
	COIL RADIO FREG				ļ . —			2420850					112400
	XFMR RADIO FREQUENCY			-				2425216					112500
+	XFMR RADIO FREQUENCY							2425217					112600
- (	CHASS ELECT EQUIP				1						120175		
+	BLOCK MIG AUX OSC Q1							2720158			120175		112800
- {	BLOCK MTG XFORMER				1			34620169			120175		
+	BLOCK MTG AUX OSC QZ							4620109			4620169		
	XFORMER RADIO TZ							34620179			120175		113100
$\dashv$	BLOCK MTG XFORMER				-			2420183			4620179		
- 1	BLOCK MTG AUX OSC 03							4620109			4620179		
-	BLUCK MIG XFORMER							34620180			120175		
- 1	BLOCK MTG AUX OSC Q5				1			4620109	MAF		4620180		
	XFORMER RADIO 14				ļ			4620181			120175		113600
- [	BLOCK MTG XFORMER				1 1			2420185			4620181		
-+	BLOCK MOUNT AUX OSC							4620109	MA F		4620181		113800
- 1	XFORMER RADIO 14							4620854	MA F		120175		113900
+	CRYSTAL UNIT QUARTZ				ļ			2420185			4620854		
	DECILLATOR AUXILLARY				1			4822700			120175		
	FREQUENCY MULTIPLIER							6320803			120175		
-1	CAVITY TUNED X7		l l				00120176		MA R		120123	6	114300
	NUT PLAIN HEXAGON				ļ			0120310			120176		
	SCREW TUNER CAVITY		ĺ					0220126			120310		
	INSULATOR CONTACT				L			0320127			120310		
	INSULATOR							1422730	MAR		120310		
	SHELL CAVITY SUBASSY				!			1422733			120310		114800
	CONTACT ELECTRICAL				1			1522736			120310		
_L	CON MET CECC. MICAL	ľ			[ ]		C	3920192	MA R	1	120310	8	115000

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DRAW	ING	LIST,	OFFSET
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	TITLE	1	1 11	111	l IV		VI	V:1			
			1			1			BERIAL THRU, SER.	ASSEMBLY COL	
	CONTACT ELECTRICAL			<b></b>			1	C39.10193		120310 8	
	CONDUCTOR SECTION							1.377.0298		120010 8	
	ALIGNMENT DEVICE		· · · · · · · · · · · · · · · · · · ·					##43z0Z33	MA R	120310 8	
	DISK CENTER TUNED				ľ	1		B4720225	MA R	120310 8	
	PLATE END TUNED CAVI		1					854-0271	MA R	120310 8	115500
	PLATE TUNED CAVITY				L		1	1.5470882	MA R	120310 8	115600
	SHELL TUNED CAVITY							01570276	MA R	120176 7	115700
	XFMR RADIO FREQ		1	1			<u>l</u>	112420827	MA R	120176 7	115800
+	XFMR RADIO FREQ		†			T	1	1.2420828		120176 7	115900
1	COIL RADIO FREG VARI			1		1		1,2425213		120176 7	116000
	CHASS ELECT EQUIP		<del> </del>			<b> </b>		F27/0136	MA R	120176 7	116100
	BLOCK MIG FREQ MULT		i		İ	1		C46:0823		120176 7	116300
	COIL RADIO FREQ			··		1		C242C831	MA R	4620823 8	116400
	BLOCK SUBASSY MTG				,	i		K4620207		4620823 8	
	BLOCK SUBASSI MIG			-	<del> </del>	<del> </del>	·	04620203		4620207 9	
	BLOCK MIG XSISTR LG			1				34620204		4620207 9	
	BLOCK MTG XSISTR		+	+	+			1.4020209			116800
	BLOCK MIG X3131K		-		1		1	14620824		120176	
	BLOCK MIG FREQ MULT		<del>-</del>	ļ	+	+		C462C625		120176	
	BLOCK SUBASSY MTG		1		1		İ	04620207		4620825	
	BLOCK MTG FREQ MULT		·		+	<del> </del>	<del> </del>	C4620826		120176	1
	BLOCK MIG FREG MULT			1			1	04622695			117300
	BLOCK MTG XSISTOR							C4622687		4622695	
				1				04622694	1 1	4622695	
	BLOCK MTG X16 MULT			<del></del>	ļ	+	+	D6 120807		120176	7 117600
	FRED MULTI SCHEMATIC			1			0012017		MA R	120123	
	FREG MULTIPLIER		!	<u> </u>		<del></del>	DU12UL1	H0122726		120177	
	CAVITY TUNED X4		i		ļ		1	C0320127	1	122726	
	SCREW TUNER CAVITY		4		<del> </del>	<del>-i</del>	· <del> - ·</del>	p142.730			8 11800C
	INSULATOR CONTACT			1				C1427733			B 118100
	INSULATOR						<del></del>			122726	
	INSULATOR CAV			i	1			81422750		122726	
	SHELL CAVITY SUBASSY		1		<b></b>			D1522736		122726	
	CONTACT ELECTRICAL			i	1	ļ		3920192			8 118500
	CONDUCTOR SECTION							C3920298			8 118600
	ALIGNMENT DEVICE	Ì			ì		1	B4320233			8 118700
	DISK CENTER TUNED	L	<b>_</b>		<b></b>	4		B6420291			8 118800
	PLATE END TUNED CAVI	ì			1		i				8 118900
	PLATE TUNED CAVITY		ļ				1	60420202			7 119000
	WASHER FLAT		1		1		1				7 119100
1 1	SHELL TUNED CAVITY		1			_		101520306	וא אייו ר	12011	JPL 0514 JUNE 61

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ì	TETLE		11	111	19	v	VI i	WIII		R MISSILE	NEXT	000	SEQUENCE
1		•							SE RIAL	THRU, SER	ASSEMBLY	CE-L.	NUMBER
t	XFMR RADIO FREG							2420820			12017	.1 4	11920
l	XFMR RADIO FREQ				1			2420821			120177		11930
t	CHASS ECECT EQUIP							2720129			120177		
l	BLOCK MIG FREQ MULT			1				4620815			12017		11950
t	BLOCK SUBASSY MIG			1				4950501			4620815		
i	BLOCK MTG FREQ MULT			1				4620818			12017		1197
	BLOCK SUBASSY MTG				<del>                                     </del>			4022695	MA F	7	4520818	1 8	
	BLOCK MTG FREQ MULT							-620822	MA R		12017		1199
	BLOCK SUBASSY MIG			T		1		4622695			4620822		
	FREQ MULTIPLIER					1 1		16320804			120177		
١	FORM COIL XI6				1			7422752	MA	₹	12017		1202
	BRACKET CONNECTE MTG				1		D0720134E	5	MA F	₹	120123	3 6	1203
	INSULATOR BUSHING						B1420221#	Ţ	MA	₹	12012:	3 6	1254
	INSULATOR XFORMER						B1426277	<b>1</b>	MALE	ર	12012:	3 6	1205
	BASE COIL			+			BZ720276	·	MA F	₹ -	12012	3 6	1206
	CABLE ASSY RF			j	ļ		C3020842		MA F	ર	120121		
	CABLE ASSY RF		ļ				C3020843		MA		12012		
	CABLE ASSY RF W16W11			1			C3020844		MA F		12012		
	CABLE ASSY AF WIGHT						C3020851		MA		12012		
	CABLE ASSY						03020852		MA F		12014		
	CONTACT STRIP						83922720		MA F		12012		
	BUSHING CONTACT ELEC						84322746		MA F		12012		
Ļ	BLOCK MIG XFMR			<u> </u>			C4620205		MA F		12012		
					1		C46 25228		MA F		12012		
	BLK MTR TRANSISTOR		ļ	<del></del>			87420278		MA		12012		
	FORM COIL		Į.		4300188		01420210	•	MA F		490050		121
	TRANSPONDER 2A2		L	l	4300100				MA	11	430018		
ĺ	SUBCHASSIS XPONDER			1	1	D4800040 F0120178			MA		430018		
	XPONDER SUBASSY			1		FU120170	1 !		MA		12017		
	FREQUENCY DIVIDER			1			F0120159						
	XFORMER RAD!O FREQ		l					2420154			12015		
	COIL RAD FREG DIVIDE		I					:24252 <b>20</b>			12015		
	CHASSIS ELECT EQUIP			i				F2720108			12015		
	SLOCK MIG FREQ DIVID		†	T				34620117			12015		
	XFORMER RADIO FREQ		l		İ	1	1	02420153			462011		
ł	BLOCK MIG XFORMER							C4620II3			462011		
	BLOCK MTG FREQ DIVID			1				34620149			12015		
ļ	BLOCK MIG XFORMER		1	1		+	!	C4625III	MA	R	462014		
	BLOCK MTG FREG DIVID				1		( )	34620150			12015		
	XFORMER RADIO FREQ		1	1		1	1	22420155	MA	R]	462015	0 8	1230
ĺ	BLOCK MTG FREQ		1	1	1	1	1	04620112	MΔ	p)	462015	nl a'	1 123

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	TITLE	- 1		111	IV	v	VI	VII	REL. FO	R MISSILE	NEXT CFF.	SEQUENCE
"1				ļ	l				SERIAL			SEQUENCE RUMBER
ł	BLOCK MIG FREG DIVID					1		84620151	MA	2	1201 7	123200
4	XFORMER RADIO 15						J	C1420156		2		123300
-	SLOCK MIG XFORMER							C4620111			4620151 8	
+	BLOCK MIG FRED DIVID			ļ			ļ	84620152				12350
-							i	C2420157			4620152 8	
+	BLOCK MIG XFORMER FREQ DIVIDER			ļ		ļ <u>.</u>		C4620109			4620152 8	
								F6320812			120159 7	
+	DETECTOR MADIO - REQU XEORMER RADIO 14			ļ			D0120160		MA		120178 6	
	XFORMER RADIO 14	i						C2420166			120160 7	124000
+	CHASS ELECT EQUIP	<del></del>						C2420167			120160 7	
ı	BLOCK MTG SUBASSY					1		F2720116			120160 7	
+	BLOCK MIG RE DET							C4620161			120160 7	
1	BLOCK MTG BE DETECTA			1 )			Ì	C4620110			4620161 8	
+	XFORMER RADIO 73			ļ				B4620162			120160 7	
1	BLOCK MTG					İ		C2420165			4620162 8	
+	DETCTOR SCHEMATEC			-			ļ	C4620114			4620162 8	
ļ	AMPLIFIED INTER FRED					ŀ		D6320811			120160 7	
+	COLL RADIO FREQUENCY						00120171		MA F		120178 6	
1	CHASS ELFCT EQUIP			1 1				C2425214 F2720104			120171 7	
+	BLOCK MIG FIRST			i		ļ					120171 7	
	XEMR RADIO FREGUENCY							84620186 C2425202			120171 7	
t	BLOCK MTG X51510R			l			<del> </del>	C4620105	MA F		4620186 8	
1	BLOCK MTG							B4625204			4620166 8	
t	BLK MTS MTL XSISTR			· · · · - · - · - · - · - · · - · · · ·			·				120171 7	
1	BLK ASSY MOUNTING							C4625206			4625204 8	
ł	AMPLIFIER FIRST			+			<del> </del>				120171 7	
ı	AMP 2 INTERMED FREQ						00120172	F6320810	MA B		120171 7	
+-	AMPLIFIER SUBASSY						17/17/2011/2	D0120199			120178 6	
1	AFMR RADIO EREQ										120172 7	
t	KEMA RADIO EREC							C2420196 C2420197		-	120199 8	
1	XEMR RADIO FREG						l .	C2420198		1	120199 8	
'n	BLOCK MIS SECOND IF	-1						C4620124			120199 8	
	FILTER BAND PASS CRY						1	02522710			120172 7	
+	THASS ELECT EQUIP							H2720118			120172 7	
	AMPL INMEDIATE SCHEM							06320809			120172 7	
1	AMPLIFIER DIRECT		· <del>-</del>				50120174		MA R		120178 6	
1	INSULATOR PLATE							1	MA R		120174 7	
T	CHASE ELECT COLLE								MA R		120174 7	
1	BLOCK MIG AMPL				i			C4620845				127100

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			1							-	<del>, - ,</del>	
# G	TITLE	1	D D	111	į įv	٧	¥t	VII	REL. FOR MI	MEXI	cer.	SEQUENC NUMBER
-	BLOCK AGC AMPL		<del></del>					T. C 7876			CCL.	
	BEOCK MIG XSISTR EG				1			1.4620255		467084		12720
-	TOLOGE PID AGO AMPE		!	<b>-</b>		ļ		4620204		4620225		12130
	BLOCK MIS AMPL				ļ	1	ļ	C4623254		4620255		
-	SECT AND AMPL							C4620846		1201/4		
- 1	BLOCK MIS AMPL						l	4620255		4620846		
_	BLOCK AGC AMPT							С4620н47		120174		1277
1	BLOCK MIG AMPL				1			4620255		4620847		
	BLOCK AGE AMPL							C4620848		120174		1279
								C4620255		4620848		TZ80
_	DEOCK MIG AMPL		l		1			C4620849		120174	7	1281
1	BEDCK, VOC., WARE							24620255	MA R	4620849	8	12820
١	AMPLIFIES DIREC SCHW		1					D6320808	MA R	120174	7	1283
I	WASHER FLAT		""				B042020I	Α	MA R	125178		1284
J	SHACKET CONNECTS MTG				1		00720137		MA R	120178		
1	POUSTNO REPONDER TO T		···		<b></b>		HI520133		MA R	120178		
1	CAULE ASSY RF						C3020842		MAR	120178		
Ť	CABLE ASSY RF				<del></del>		C3020843		MAR	120178		
ı	CABLE ASSY RE WISWIE						3020844		MA R	120178		1289
1	CABCE X55V						C3020851		MA R	120178		
1	CABLE ASSY						03020853		MA R			
4	TILIER SUBASSY 2X9				04300194		00020000		MA R	120178		
١	r I 6	1			P 13001.74	6141500	, l		MA R	4900501		1292
1	- DMING BEGCK				+	6141500			MA R	4300194		
ı	RESONATOR		- 1			6141501		1	MA R	4300194		
ł	DISPLAY FILTER FEZOA		·			6141502				4300194		1295
ı	FILTER HOUSING		i i		i				MAR	4300194		
ł	:5V53		[.		1	6141502			MA R	4300194		1297
١	LECON SUPPORT					6141502			MAR	4300194		
ł	CIL'ER ASSY FUZNA					6141502			MA R	4300194		1299
l	WILLECTRIC SUPPORT	1			1	6141504			MA R	4300194	5	1300
ļ	LAA LUUBLIAG WERA		i		]	6141504			MA R	4300194	5	1301
l	SET SCREW					6141504			MA R	4300194	- 5	1302
Į						6141504			MA R	4300194	5	1303
ĺ	SUPPORT ROD					6141504			MA R	4300194	-5	1304
l	ESCHATOR SHAFT		1			6141504		[	MA R	4300194		1305
ſ	SUPPORT NUT				1	6141504	5		MA R	4300194		
ł	AUTO PILOT 7A4 SUBAY		ì		D4300204	İ	İ		MA R	4900501		13100
i	TAUTOPIEGT ACTUATOR					6 1 <del>0610</del> 0			MA R	4300204		
1	BLEEVE INSUL AUTOPLT	- 1			1		3 106106	1	MA R	106100		
T	"WASHER-INSUL AUTOFLE"						3 106107		MA R	106100		
ł	AUTOPILOT ELECTRONIC				1		106100		MA R	106100		
1								-	CLO IZ	109100	0	12146

COVER

CAPACITOR ASSEMBLY
SCHEMATIC DIAGRAM
CB1 BSTR REG & POWER

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DRAWING LIST, OFFSET REL. FOR MISSILE NEXT ASSEMBLY SEQUENCE NUMBER Ħ TITLE BERIAL THRU, SER. 106100 6 131500 106102 7 131600 106102 7 131600 106102 7 131600 106100 6 131900 4900501 4 132000 4300205 5 132100 106130 6 132200 106130 6 132200 106130 7 132400 106119 7 132500 106119 7 132500 106119 7 132700 106119 7 132700 106119 7 132700 106130 6 133000 106130 6 133000 106130 6 133300 106130 6 133300 106130 6 133300 106130 6 133300 106130 6 133300 106130 6 133300 106130 6 133300 106130 6 133300 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 133400 106130 6 134400 106130 6 134400 106101 5 134400 1060011 5 134400 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 134500 1060011 5 13500 1060011 5 13500 1060011 5 13500 1060011 5 13500 1060011 5 13500 AUTOPILOT ELECTRONI 106101 MA R TB AUTOPLT ACTR ELECT 10610 106103 MA R MA R ART WORK 106104 SUBCHASS AUTOPILOT 106105 MA R MA R MA R MA R MA R 106121 MA R 106122 MA R 106124 MA R 106124 MA R 106124 MA R 106120 MA R MA R ANTENNA & SERVO 7A1 ANT SERVO SUBASSY D4300205 6 106130 ANT SERVO SUBASSY SUBCHAS ANTOPHP SERVO ANT DRIVE ASS SHIELD ANTOPHP SPT ANTOPHP SERVO CPLG ANTOPHP SERVO GUIDE ANTOPHP SERVO SPACER ANTEPHP SERVO CAP SEAL ANTEPHP 00 INS ANTEPHP ELECT 1061268 XMFR ASSY ANTEPHE 4 10612, A 106130PL 106131 MA R MA R MA R MA R ANT SERVO ELECTRONCS TERM BD ANT SERVO 6 106132 106133 106134 MA ART WORK MA R ART WORK BOOSTER REGULATOR DIODE INSTALL ADHESIVE D4400011 90086 MA R MA R SCREW LOCK MECH CONNECTOR INSTALL TRANSISTOR INSTAL 90312 90314 90358 MA MA R BOOSTER REGULAT SCHA D440000 B440000 INDUCTOR POWER XMFR T3 MA MA B4400010 CHASS BOOSTER REG CAPACITOR SUBASSY CASTING RESIN MA D440001 84400013 MA R MA R MA R MA R A 90099 04400007 SCHEMATIC DIAG C4400014 CHASSIS

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### JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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	TITLE		n	111	l rv	٧	V1	VII	REL. FO	RHISSILE	NEXT Assembly	COL.	SEQUENCE NUMBER
**			"			<u> </u>	1		SERIAL	THRU, SER.			
٦	ADHESIVE				1		A 30031		MAR		4400089		
	TRANSIPAD			<u> </u>			A 90127		MA R	1	4400089		135600
4	BOOSTER REG CBI		ľ	İ			A4400089P	_	MAR		4400089		
4	PRINTED CIRCUITRY CB						U4400090		MA R		4400089		135800
3	400 CPS PWR AMP 4A8				P4400018				MAR		4900501		135900
Ę	400 CY PWR SUP SCHEM					D4400017			MA R		4400018		
١	PARTS LIST					A4400018				1	4400018		
۷	TRANSISTOR SUBASSY 1					C4400025			MA R		4400018		
9	SUBCHASS ASSY POWER   XMFR T3 POWER SUPPLY					04400019			MA R		4400018		
1				ļ		C4400022					4400018		
ď	CHOKE LI POWER SUPLY		ĺ	1		C4400023			MAR		4400018		
2	TRANSISTOR SUBASSY 1			ļ		C4400026			MA R		4400018		
벽	400 CY PWR SUP SCHEM			1		ì	04400017		MAR		4400026		
⅃	TRANSISTOR SUPPORT			1			C4400030		MA R		4400026		
١	INSULATOR POWER SUPP					C4400027	1		MA R		4400018		
	INSULATOR PWR SUPPLY			<u> </u>		C4400028			MA R		4400018		
J	CRI PAK ZOPPLY		1			04400029			MAR	7	4400018		
٩	400 CY PWR SUP SCHEM		1	l			D4400017		MA R		4400029		
4	CB1 400 CYCLE PWR				ĺ		A4400029P	L	MAF		4400029		
	CB1 PWR SUPPLY						D4400078		MA R		4400029		
Ą	CB2 PWR SUPPLY				i	D4400077			MA R		4400018		
9	400 CY PWR SUP SCHEM			l			D4400017		MA F		440007		
4	CB 2 PWR SUPPLY			1			A4400077P	L	MA F		440007		
A	CB1 PWR SUPPLY		l	<u> </u>			D4400079		MA R		4400077		
	CB3 PWR SUPPLY		l	1		C4400093			MAR		4400018		
٩	400 CY PWR SUP SCHEM	_					D4400017		MA 6		4400093		
	CB4 400 CYCLE PW SUP		İ			K4400211			MA R		4400018		
4	400 CY PWR SUP SCHEM			ļ			D4400017		MA R		4400211		138200
	CHOKE L3 PW SUPP 400			1		B4400213	4		MA F		4400018		
q	POWER SYNCHRO 4A6		L	L	D4400031		<u> </u>		MA F		490050		138400
	ADHESIVE					A 90091			MA F		440003		
1	TRANSISTOR MOUNT			l		C 90116			MA F		440003		138600
	NUT TRANSISTOR MOUNT			i		A 90126			MAF		440003		138700
	STUD LOCK FEMALE			1		B 90312			MAF		440003		138800
	CONNECTOR INSTALL				- I	C 90314			MA F		440003		
	SPECIMEN TENSILE				1	C 90316		_	MA F		440003		139000
1	TRANSISTOR INSTL		1	1		B 90358			MAF		440003		
F	SUBCHASSIS PWR SYNC			1		D4400032			MA F		440003		139200
1	CB1 POWER SYNCHRON		T .			D4400033			MA F		440003		139300
	CB1 POWER SYNCHRON		1			1	A4400033P	L.	MA F	₹	440003	3l 6l	139400

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R	RAWING LIST, OFFSE	Т		MARINE	R R 62		PAGE	37	4-12-63			
;	1111.8	ı	"	111	iv	٧	VI	Ail	REL. FOR MISSILE	NERT ASSEMBLY	err. BEC	QUEN
f	POWER SYNCHRON SCHEM				1		J4400035		MA R	4400033	6 13	395
1	PCB			<del> </del>	<del> </del>		J4400036		MA R	4400033	6 13	
1	CB2 POWER SYNCHRON ADHESIVE		1			D4400034			MA R	4400051		
+	TRANSIPAD INSTALL					ļ	A 90091		MA R	4400034		
ı	SCREW QUINTLOCK			ļ	ŀ		A 90127		MA R	4400034		
ł	CB2 POWER SYNCHRON		ļ		<del> </del>	<del>                                     </del>	B 90252		MA R	4400034		
1	POWER SYNCHRON SCHEM					1	A4400034P	L	MA R	4400034		
t	PC TB2 POWER SYNCHE		<del>                                     </del>		+	<del> </del>	U4 40 00 3 5		MA R	4400034		
1	POWER SYNCHRON SCHEM				1	J4400035	C4400037		MA R MA R	4400034		
١	XEMR DRIVER PWR SYNG		1		<del>                                     </del>	C4400038			MA R	4400031 4400031		
l	SATURABLE XFMR					C4400039			MA R	4400031		
r	CAPACITOR ASSY					84400083			MA R	4400031		:
١	ADHESIVE		1				A 90091		MA R	4400083		
	POWER SYNCHRON SCHEM						J4400035		MA R	4400083		
	CHOKE L1 POWER SYNC			l	1	B4400215			MA R	4400031		
	BATTERY CHARGER 4A7				D4400042	2			MA R	4900501		
L	DIODE INSTALLATION			i	1	C 90085			MA R	4400042		
l	ADHESTVE			_		A 90091			MAR	4400042		
L	STUD LOCK FEMALE					B 90312			MA R	4400042	5 14	1
l	CONNECTOR INSTL					C 90314			MA R	4400042		1
L	WASHER INSULATION					8 90392			MA R	4400042		
1	SPACER		i		[	8 90393			MA R	4400042	5 14	-1
L	SUBCHASS BATT CHARGE					D4400016			MA R	4400042	5 14	· 1
	CB1 BATTERY CHARGER		1		1		B4400087		MA R	4400016	6 14	1
1	ADHESIVE		ļ			D4400043			MA R	4400042		2
1	RANSIPAD		1		1	1	A 90091		MA R	4400043		
H	SCREW QUINTLOCK				<del></del>		A 90127		MA R	4400043		
	CB1 BATTERY CHARGER						B 90252		MA R	4400043		
H	SCHEMATIC DIAG				<del> </del>		A4400043Pt		MA R	4400043		
	PC TB1 BATT CHARGER		l				C4400044 D4400045		MA R	4400043		
	SCHEMATIC DIAG					C4400044			MA R	4400043		
	HOUSING INSULATOR					D4600016			MA R	4400042		
_	BATTERY CHASSIS 4A14				J4400200	5.00010			MA R	4900501		
	BATTERY ASSY					E2011000			MA R	4400200		
	BATTERY SCHEMATIC				<del>                                     </del>		5 106304		MA R	2011000		
	CHASSIS BATTERY				1.		J4400201	J	MA R			
	COVER BATTERY						J4400202		MA R	2011000		
	PACKAGING BATTERY				1		D2001069		MA R	2011000	6 14	

DF	RAWING LIST, OFFS	ET			ITUTE OF TECH	LABORA NOLOGY, PASA		E 38	DATE LISTED 4-12-6	3	
6 M B.	TITLE	ı	11	101	14	٧	VI	Ais	REL. FOR MISSILE	_ NEXT	ors. SEQUENCE
П	BOX INTERIOR BOX EXTERIOR							B2001067 B2001068	MA R	2001069	7 143012 7 143014
A	WIRING DIAGRAM MONOBLOCK POSITIVE		-				C2012008 D2012014		MA R	2011000	6 143016 6 143018
Ã	POS & NEG ASSY							A1912014 C2012001		2012014	7 143020
Ã	POSITIVE PLATE NEGATIVE ASSY				<del></del>			B2012002 B2012003	MA R	2012001	8 143024 8 143026
A	GRID ASSY NEGATIVE RETAINER				<u> </u>			B2012004 A2012006	MA R	2012003	9 143028
Α	SEPARATOR POSITIVE CONTAINERS			-	1	<u> </u>	<b>†</b>	AZ012005 C2012007			8 143032 7 143034
7	HEA! TRANSFER POTTING CHANNEL						1	B2012007 B2012009 B2012010	MA R	2012014	7 143034 7 143036 7 143038
7	POTTING CHANNEL 5 CELL COVER			1.				B2012011 B2012011 B2012012	MA R	2012014	7 143040
A	4 CELL COVER MONOBLOCK NEGATIVE						1	B2012013	MA R	2012014	7 143042 7 143044
A	CONTAINER REINF POS & NEG ASSY							A1912014	MA R	2012015	6 143046 7 143048
4	POSITIVE PLATE NEGATIVE ASSY							C2012001 B2012002		2012001	7 143050 8 143052
Ä	GRID ASSY NEGATIVE RETAINER				-			B2012003 B2012004	MA R	2012003	8 143054 9 143056
7	SEPARATOR POSITIVE						l	42012006 42012005	MA R		9 143058 8 143060
A	CONTAINERS HEAT TRANSFER							C2012007 B2012009	MA R		7 143062 7 143064
$\dashv$	POTTING CHANNEL POTTING CHANNEL							32012010	MA R		7 143066
+	5 CELL COVER 4 CELL COVER							32012012 32012013	MA R	2012015	7 143070
A	TRANSDUCER ASSY TRANSDUCER PANEL						A2012019	N2012016	MA R	2011000	6 143074
4	TERMINAL BOARD						<u> </u>	A2012017	MA R	2012019	7 143078
A	STAMPS MARINER R CHASSIS POWER ASSY				J4400204		B2012020		MA R	2011000	6 143082
-	CUP POTTING STUD LOCK FEMALE				- 100201	C 90190 B 90312			MA R	4400204	5 143200
	CONNECTOR					C 90314			MA R MA R	4400204	5 143300

:	TITLE	 111	111	IV	¥	<b>V</b> 1	¥11	REL. FOR	MISSILE THRU, SER.	MEXT ASSEMBLY	GFF.	SEQUENCE NUMBER
1	Z400CPS PWR AMPL 4A9	 	<del></del>		24400003	ļ		MA R	THAU, SEA.	440020	1 1	14340
٦	STUD LOCK	1		Ì	100000	8 90312		MA R		440000	1 -	14340
+	CONNECTOR INSTE	 		+		C 90314		MA R		440000		14340
H	PWR SUP 2.4KC SCHEM	1		1		04400002		MA R		440000	3 6	14340
ď	SUBCHASSIS PAR SUP	 			İ	04400004		MA R		440000	3 6	14340
1	SUBCHASSIS		-				044000000	MA R		440000		14340
1	POWER XFMR 1-1					B4400005		MA R		440000		
₫	CHASSIS POWER				J4400127	1		MA R		440020		
†	HOUSING PLATE SECT				D4600003			MA R		440020		
١	HOUSING CATHODE SECT					04600002	l	MA R		440000		14343
T	TRANSDUCÉR			Ì	C4600161			MA R		440020		14350
4	ANGLE CONNECTOR	1			C4800076			MA R		440020		14360
4	CLAMP WIRE	ļ	1		34800071			MA R		440020		
4	CLAMP THERMOCOUPLE	 	1		34800080			MA R		440020		14380
I	HINGE PIN	1	1		04900503	1		MA R		440020 490050		14390 14400
1	TOP SHIELD ASSY	 		04400210				THA R				14400
J	SURFACE TREATMENT	1	1	1	R A0305			MA R		440021 490050		-
4	CHASSIS ASSY DATA	 ļ		J4500121	U4500152			MA R	1	450012		
ή	TRANSDUCER	1	1	1	C4600161			MA R		450012		
4	SHIELD CHASSIS	 			0460033			MA R	1	450012		
Ţ	CLAMP WIRE	1			B4800078		1 !	MA R		450012		
7	CLAMP THERMOCOUPLE	 			B4800050			MAR		450012		
1	ANGLE CONN MOUNTING				C4800314			MA R		450012		
4	SURFACE THEATEHANDLE	 		···   ···-	C4000314	1 IA 96302	1 +	MAR		480031		
1	HINGE PIN			1	D490050:		1	MA R		450012		
A	OP SHIELD ASSY 3	 		U450015		1		MA R		490050		
4	COMMO TR CONT 3A3			K4600308		ļ		MA R		490050		
7	SUBCHASSIS MACHINED	 +			4900035	,		MA R		460030		
-	POWER SUPPLY-3A3		1		25382	1	1	MA R		460030		
1	SELF-LKG 4-40X3/16	 		<u> </u>		14049		MA R		2538		14540
1	PAN HD 6-32X 5/16		1	Į.		15013		MA R	· l	2538		14550
1	WASH LOCK #4 MED SPL	 +				15067		MA R		2538	2 6	14560
	SCHEMATIC					6322504		MA R				14565
+	HOUSING SUBCHASSIS	 1			<b>†</b>	22645	1	MA R		2538		14570
-	SPACER SUBCHASSIS				1	22647		MA R		2538		14580
+	POWER SUPPLY ASSY OF	 T			1	25369		MA R		2538		14590
	5V 28V RECT MODULE	I				1	25344	MA R		2536		
	RES FXD 10-5-1/4					i	15021	MA R		2534		
	PCB .				1		25345	MA R	1	2534	4 8	14620

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	TITLE	,	н	111	tv .	v	VI .	AII	REL. FOR MISSI		677.	SEQUENCE HUMBER
τ.						1.			SERIAL THRU.		Cul.	
Т	PCB			l .	1		I	25346		2534		
	6 VOLT RECHELL MOD							25347	MA R	25361 2534		
	PCB			i			i					
	INS SEVS #18 WHT					<u> </u>		14143		2536		
Т	WIRE ELEC B-22-0 WHY	1						15015		2536		146700
- [	TRANSFORMER AF-211							22629 22630		2536		146800
T	TRANSFORMER AF-212			i								
-	INDUCTOR-3MH							22631		25369		
Т	PCB							25349		2536		147100
-	PCB							25353				147200
T	DUMMY MODULE							25540		2536		147300
Т	INS LACQUER						- 1	29503				147400
+	SPACER CONN ELEC	-					ু ১৯রম্ভ		MAR	2538		
D	COMMO DECT B CON 3A2	1			D4600309	ļ			MA R	490050.		
+	SUBCHASSIS MACHINED			1		4900039			MAR	460030	9 5	147800
1	LOGIC DRAWING	!				6922594			MA R	460030		
+	DETECTOR -3AZ					25380			MAR	460030	9 5	147900
1	SELF-LKG 4-40X3/16						14049		MA R	2538	0 6	148000
+	PAN HD 6-32X 5/16			t	_		15013		MA R	2538	0 6	148100
1	WASH LOCK #4 MED SPT	1					15067		MA R	2538	0 6	148200
+	HOUSING SUBCHASSIS						22494		MA R	2538	0 6	148300
-	SPACER SUBCHASSIS	1		1		1	22647		MA R	2538	0 6	148400
+	FIL & PHASE 3AZAZ						25370		MA R	2538	0 6	148500
ı	INS SLVG #18 WHT				1	1		14143	MA R	2537	0 7	148600
+	WIRE FLEC 8-22-V WHY			<del> </del>	<del>                                     </del>	<del> </del>		15015	MA R	2537	하 7	148700
-	RES FXD 100K-5-1/4	ļ		ļ	1			15021		2537	0 7	148800
+	XMFR AF-CHPR DEMOD			<del> </del>		<del> </del>		22490	MA R	2537	ol 7	148900
	XMER AF							22491	MA R	2537	ol 7	149000
+	PH DET LOOP-CM MOD			·				25275	MA R	2537	ol 7	149100
1	RES FXD 270 K-5-1/4				1			15021	MA R	2527		14920
+	SCHEMATIC			<del>                                     </del>		<del>                                     </del>		6325246		2527		
1	PCB				İ	1 1		25276		2527		
4	PCB				-	<del> </del>			MA R			14940
Ţ	QUAD PHASE DET MOD								MA R			14950
4	RES FXD 5100-5-1/4					<del> </del>		15021				14960
-	SCHEMATIC	-						6325244				14961
1						<del>                                     </del>			MA R			14970
	PCB	-				1		25280		2527		14970
1	PCB			<del> </del>								
	LOOP PH DET DRVR MOD			1		1			MA R	2537		14990
ı	SCHEMATIC			1		1		6325240	i ma Ri	2528	4 8	1499

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			MARINER	R 62		PA	GÉ 41	4-12-63		
AWING LIST, OFFSE	T									
TITLE	1	11	101	I¥	٧	וע	Aiī	REL. FOR MISSILE BERIAL THRU, BER.	NEXT OFF.	SEQUEN
PCB							25285			1500
PCB			ļ			ļ	25286			1501
QUAD PH DET DRVR MOD	1			1			25287			1502
SCHEMATIC PCB			ļ	<del> </del>		-	6325245			1502
PCB	1			1			25285 25286		25287 8 25287 8	1503
DRIVER-INVERT MODULE			-	1		+	25297		25287 8	
RES FXD 18K-5-1/4							15021		25297 8	
SCHEMATIC	1		1			+	6325242		25297 8	
PCB	1		1			1	25298		25297 8	
PCB							25299	MA R	25297 8	1508
PCB-#2			J			L	25308		25370 7	
PCB-#1							25309			1510
8 MSEC MONO MODULE							25328		25370 7	
RES FXD 6200-5-1/4	i		i				15021		25328 8	
RES FXD 82K-5-1/2 SCHEMATIC			-				15022		25328 8	
PCB	ŀ					1	25329		25328 8 25328 8	
PCB			<del> </del>	ļ		<del> </del>	25330		25328 8	
DUMP DRIVER MODULE	1					1	25338		25370 7	
RES FXD 10K-5-1/4			ļ ———	i		1	15021		25338 8	
SCHEMATIC			1			1	6325263		25338 8	
PCB 00-5-1/4			1			1	25339		25338 8	
PCB			l			1	25340	MA R	25338 8	1519
DUAL INVERTER MODULE							25363	MA R	25370 7	
RES FXD 5600-5-1/4			<u> </u>				15021		25363 8	
PCB	1					1	22577		25363 8	
FCB			+	ļ			22578		25363 8	
SCHEMATIC			}				6325255	MA R	25363 8 25370 7	
PES FXD 330-5-174			+			1	25364		2537C 7 25364 8	1524
PCB			1				15021 22571		25364 B	
PCB			t		_	<del> </del>	22572	MA R	25364 B	
TRANSISTOR			1				22643	MA R	25364 8	
SCHEMATIC				1		1	6325251		25364 8	
MATCHED FIL AMPL MOD			<u>t                                    </u>			L	25365		25370 7	
RES FXD 2200-5-1/4							15021	MA R	25365 8	
PCB						ļ	22568	MA R	25365 8	1531
PCB	1		ì			1	22569		25365 8	
SCHEMATIC						1	6325262	MA R	25365 B	1532

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DRAWING LIST, OFFS	ET		MAKTHER	. n 02			L -+2		12-63		
CH4. TITLE		:1	rit .	1A	٧	¥I	¥Π	REL. FO	THRU, SER.	MEXT OFF.	SEQUENCE NUMBER
RES FXD 39K-5-1/4							25374 15021	MA R		25370 7 25374 8	153300
SCHEMATIC							6325243				153410
PCB			İ	İ		1	25375				15350
PCB							25376	I			15360
DET-INVERT GATE MOD						1	25384				15370
PCB			l			1	25292 25293		1	25384 8 25384 8	15390
SCHEMATIC			1		-	ļ. <del></del>	6325354			25384 8	
INS LACQUER KIT			İ		ł	1	29503				15400
AMPL COMMAND-3AZA1						25371		MA R	1 1		15410
INS SLVG #18 WHT			]	1		1	14143	MA R			15420
WIRE ELEC B-ZZU WHT							15015				15430
RES FXD 470K-5-1/4							15021		1 . 1		15440
FILTER BAND			i				22465				15450
TRANSFORMER AF							22490 25281			25371 7 25371 7	15460
RES FXD 5100-5-1/4			ł			]	15021				15480
SCHEMATIC			ļ	-			6325248		1 1		15481
PCB			i			1	25282				15490
PCB			<del> </del>	<del>                                     </del>			25283				15500
LOOP PH DET DRVR MOD			ļ				25284	MA R		25371 7	15510
L PWR DUAL-INV MOD			1	<del> </del>	<del></del>	t	25291	MA R			15520
SCHEMATIC			1				6325259				15521
PCB							25292			25291 8	
PCB				ļ			25293				15540
PCB #2 PCB #1			l				25310 25311	MA R	1 1		15550 15560
LIMITER AMPL MODULE							25322	MA R			15570
RES FXD 220K-5-1/4			1				15021				15580
SCHEMATIC			<del> </del>	<del>                                     </del>		-	6325254				15581
PCB			1				25323	MA R	1 1		15590
РСВ						l	25324	MA R		25322 8	15600
LIMITER EMIT FOL MOD			1	l	l	L	25325			25371 7	
RES FXD 1000-5-1/4				Ĭ			15021			25325 8	
SCHEMATIC						L	6325252			25325 8	
PCB			1	1	1		25326		1 1	25325 8	
PCB COM INPUT AMPL MOD			1				25327		-	25325 8 25371 7	
RES EXD 220K-5-1/4			1				25332 15021			25332 8	

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	TITLE		п		IV	v	٧ı	VII .	REL. F	OR MISSILE	HEXT	DFF.	SEQUENCE
	1		L						SE RIAL		ASSEMBLY	1 1	
	PCB	-	ļ					25333			25353		156700
	PCB				-			25334		R	253d;		
	SCHEMATIC		ļ			- 1		6325357		R	25537		
	COM OUP! AMPL MOD							25335		R	25371		
ı	RES FXD 47K-5-174					1		15021		R			15700
	SCHEMATIC							6325247		R	2525	1.5	15701
	PCB							25336		¥	25335		15710
	PCB							25337		R			15720
	3 9V&18V MODULE							25341		K	25371		
_	RES FXD 3300-5-1/4		ļ					15021		R			157400
1	SCHEMATIC		İ					6325261		K .			157410
	PCB		ļ	ļ				25342 25343		K .	25341		157500
	PCB HOOL E			1		1		25362		K			15770
Ш	RES FXD 27K-5-174			1				15021		<u></u>			157800
	PCB 7XD 27X-3-174			1	1			22555					15790
	PCB		ļ ————					22556		<u></u>			158000
	SCHEMATIC		1	1				6325253					158010
-	INPUT EMIT FOL MOD			<del> </del>				25366		R			15810
	PCB			-				22549					158200
$\dashv$	PCB				+			22550					15830
	SCHEMATIC							6325249					15831;
-	INS LACQUER KIT				+			29503					15840
	SPACER CONNECTOR			ł			25385	2,70,7	MA	R	25311		15850
	COMMD DECOD 3A4			-	C4600310		2 / 2 / 2		I/A	P	4900501		15860
٦	SUBCHASSIS MACHINED				C 7000313	4900039			M.A.	R	4600310		15870
-	LOGIC DRAWING			+	+	6925266			V.A.	10	4600310		
	DECODER 3A4					25383			MA	R	4600310		
-	SCR SELF-LKG PAN HD		f				14049		MA	RI			15590
	SCR MACH PAN HD			1	1	i	15013		MΔ		25383		15900
-	WASH LOCK #4 MED			+			15067		MA	D .			15910
	HOUSING SUBCHASSIS		İ				22497		MA		25383		15920
	SPACER SUBCHASS		1	1			22647		MA	P	25383		
	DECODER ASSY						25357		MA		25383		
	INS SLIG ELEC EXPAND		·	<b>†</b>				14143			25367		
	WIRE ELEC B-22-0 WHT		1					15015			25367	1 7	15960
	DUALGINVERT GATE MOD			1				25291			25367		15970
	SCHEMATIC							6325259		R	25291		15971
	DRIVERSINVERT GATE							25247	MA	R	2536		
	SCHEMATIC		l .	i	1	. 1		6325242		ol la			15961

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:	TITLE	1	li I	111	IV	٧	YI	VII	REL. FOR MISSILE	MEXT	**.	SEQUENCE
- 1	İ	·	"	l				1	SERIAL THRU, SER.		0 L-	NUMBER
	DC BDI							25304		25357		159900
	PC BD2							25305				160000
1	9 INPUTGINVERT MCD			i				25318				160100
1	SCHEMATIC			L	1			6325241		25318		
	PC BD		ĺ					75319				16020
- (	PC BD						<u> </u>	25320				16030
	15 SW MODULE			i				25350		25357		16545
1	RES FXD COMP						l	15021		25360		
	PC BD			1				22488		25360		
	PC BD						l	22489		25360		
	SCHEMATIC							6325256		25360		
	IP SW MODULE							23361		25367		
	RES FXD 560-5-174						1	15021		25361		
1	PCB			1	1				MA R	25361		
	PCB.						1		MA R	25361		
	SCHEMATIC							6325257	MA R	25361	8 1	6111
t	STRIT FLIP FLOP MOD						1	25374	MA R	25367	7	16120
1	SCHEMATIC		1	1	i			6325243	MA R	25374	8	16121
†	INS COMP FLEC PROTEC		-			-		29503	MA R	25367	7	16130
	DECODER ASSY						25368	5	MA R	25383	6	16140
t	INS SLVG FLEC EXPAND						1	14143	MA R	25368	7	16150
1	WIRE ELECT B-22-U						1	15015	MA R	25368	7	16160
T	DUAL DRIVER MODULE		i	1	<del> </del>		1	25288	MA R	25368	7 ]	6170
ı	RES FXD 18K-5-1/4						1	15021	MA R	25288	8 :	16180
+	SCHEMATIC			f	<del> </del>			6325260	MA R	25288		
	PCB						1	25289	MA R	25288	8 3	6190
t	PCB				+		1	25290	MA R	25288	8	16200
	DUALSINVERT MODULE			į				25291	MA R	25368	7	16210
t	SCHEMATIC							5-25259	MA R	25291	8 .	6211
	DRIVERGINVERT GATE							25297	MA R	25368	7	16220
t	SCHEMATIC		†		<del> </del>			5325242				622
١	PC1			İ	1			25306	l I	25368		
	PC BD2				<del> </del>		1	25307		25368		
	INPUTGINVERT MODULE		1	1	1		1	25318		25368		
	SCHEMATIC			<u> </u>	+			6325241				1625
	IP SWITCH MODULE				1		ì	25361		25368		
	SCHEMATIC			1	1		<del> </del>	6375257	1	25361		
	S/R/T FLIP FLOP MOD				1		1		MA R	25368		
	SCHEMATIC		<del>                                     </del>		+		<del>                                     </del>	6225243				16271
1	INS LACQUER KIT				1	i	1		MA R			16280

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			MARINER R
DRAWING	LIST	OFFSET	

£##:	TITLE		11		IV	<b>-</b>	γı	VII	REL. FO	A MISSILE	WEXT	orr.	SEQUENCE NUMBER
k***	***	•	, "	] ""	1 "	'			SE RIAL	THRU. SEE.	ASSEMBLY	COL.	
П	SPACER CONN ELEC	-					25385		MA	R	25383	्रा	162900
l q	COMMAND DETECTOR 3A1			1	04600311				MA F	ર	4900501	4	163000
П	SUBCHASSIS MACHINED					4900039			MA F	र	4600311	. 5	163100
1	LOGIC DRAWING		1		1	6922594			MAF	٦l	4600311		
	DETECTOR A-3A1					25381			MA F	₹	4600311	. 5	163200
ħΙ	SELF-LKG 4-40X3/16			1			14049		MA F	ર	25381		163300
П	SCR MACH HD 6-32X						15013		MA F	₹	25381	6	163400
ш	LOCK #4 MED SPLIT			ì			15067		MA F	ર	25381	1 6	163500
П	HOUSING SUBCHASSIS		1				22494		MA F	١			163600
11	SPACER, SUBCHASSIS			i		!!!	22647		MA F	ર	25381	. 6	163700
$\Box$	GEN PH LK-L 3A1A2						25372		MA F	2	25381		163800
ш	INS SLVG #18 WHT			1			_	14143	MA F	ર			163900
H	WIRE ELEC B-22-U WHT		1					15015		2	25372	17	164000
1	RES FXD 100K-5-1/4			1		li	I	15021	MA F	રી	25372		164100
Н	XMFR AF-LOOP PH DET							22491		₹	25372		
	LOOP PH DET-COM PH		ł					25275	MA F	રી			164300
$\vdash$	SCHEMATIC			İ				6325246		ŧ –			164310
H	LOOP PH DET DRVR MOD		t	1				25284					164400
$\vdash$	SCHEMATIC			<del> </del>				6325240			25284	.l 8	164410
П	LP DUAL DRIVER MOD							25288					164500
Н	SCHEMATIC		1					6325260		₹			164510
	LP DUAL-INV GATE MOD			1		l [		25291	MA F	રી	25372		
П	SCHEMATIC							6325259	MA F	₹	25291	. 8	164610
1	9 INPUT DET-INV MOD		1			] !		25294	MA F	ર	25372	2 7	164700
П	PCB							25295	MA F	₹	25294	в	164800
	PCB		ľ	1				25317	MA F	₹ĺ	25294	ЫB	164900
	SCHEMATIC			i				6325356	MA F	र			164910
1	DRIVER-INV GATE MOD			İ				25297	MA F	ર	25372	2 7	165000
	SCHEMATIC			ĺ		i i		6325242	MA F	3			165010
11	PCB #2		1	1	1		İ	25312	MA F	al	25372	7	165100
$\Box$	PCB#1				1			25313		3	25372		
	VOLTAGE CONT OSC				1		i	25331		ર્સ	25372		165300
$\Box$	LOOP FILTER MODULE		1		1			25350		રો	25372	7	165400
	SCHEMATIC				1			6325258		٦	25350		
	PCB							25351		٦	25350	8	165500
1	PCB		I			l		25352		₹ _	25350	la k	165600
	S/R/T FLIP FLOP MOD							25374	MA	₹	25372	2 7	165700
	SCHEMATIC							6325243	MA f	₹	25374	48	165710
П	INS LACQUER KIT							29503	MA	₹	25372		165800
1	TELEMETRY 3A1A1			1	1		25373		MA F	ર	25381	1 6	165900

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	MARINER R 62	PAGE	46	4-12-63
DRAWING LIST, OFFSET				

1	TITLE	1	н	111	19	٧	vt vt	VII	REL. FOR MISSILE	MEXT OF	SEQUENCE
+	SPACER CONN ELEC					<del>                                     </del>	25385		MA R	25371	00001 10
ı	INS SLVG, ELEC-EXPAND					ŀ		14143	MA R	25373	7 16610
†	WIRE, ELEC B-22-U WHI			•				15015	MA R	25373	7 16620
١	LP DUAL DRIVER MOD		!	1		ľ		25288		25373	7 16630
+	SCHEMATIC					1		6325260			8 16631
l	LP DUAL-INV GATE MOD						1	25291			7 16640
1	SCHEMATIC							6325259			8 15641
1	PC#1					1		25314			7 16650
1	PC#2					Ì	1	25315		25373	7 15660
1	IP SWITCH MODULE					1		25361			7 16670
T	SCHEMATIC		i					6325257			8 16671
1	S/R/T FLIP-FLOP MOD					ł		25374	MA R	25373	7 16680
†	SCHEMATIC		l					6325243	MA R		8 16681
ĺ	DUMMY MODULE							25540	MA R	25373	7 16690
+	INS CACQUER KIT				†	İ		29503	MAR	25373	7 16700
A	XMFR REC SUBASSY ENV		ļ		D4600312		1		MA R	4900501	4 16710
A	PWR SUP MKZ L-BAND					E 550717	1 1		MA R	4600312	5 16715
A	PWR SUP MK2 L-BAND					1	A 550717	PL	MA R	550717	6 16720
A	ARTWORK TEMPLATE					†	C 850738		MA R	550717	6 16721
A	ARTWORK TEMPLATE		1				C 850741		MA R	550717	6 16722
4	TRANSFORMER-PWR T401					İ	C 850749		MA R		6 16730
A	SILKSCREEN					1	C 850750		MA R	550717	6 16740
4	CHASSIS MKZ L-BAND			·		† · · · · · · · · · · · · · · · · · · ·	D 950716	-	MA R	550717	6 16750
4	ENV MK2 L-BAND POWER		ľ				D 950718		MA R	550717	6 1675
4	SCHEMATIC MKZ L-BAND					†	D 950721		MAR	550717	6 16752
4	COMPONENT BOARD REG		1			1	D 950739		MA R	550717	6 16753
4	COMPONENT BOARD REG				<del> </del>	<del></del>	D 950740		MA R	550717	6 16760
4	COMPONENT BD UNREG					l	D 950742		MA R	550717	6 16762
4	COMPONENT BD UNREG					1	D 950743		MA R	550717	6 16770
4	CIRC & PWR MON 2A6		ļ		D4600313	s <b>i</b>	[ ]		MA R	4900501	4 16790
	COMMUNICATIONS 2A5		<del> </del>		U4600318				MA R		4 1683
ı	ADHESIVE		ŀ			A 90091			MA R	4600318	
t	STUD LOCK					B 90312	1		MA R	4600318	
	CONNECTOR INSTALL		l			C 90314			MA R	4600318	
9	JUNCTION BOX SCHEM					D4600317			MA R	4600318	
1	JUNCTION BOX COMMUN		{			A4600318			MA R	4600318	
1	CB1 PC JUNCTION BOX	*			+	04600319			MA R	4600318	
	SPACER JUNCTION BOX		1			84600320			MA R	4600318	
1	SUBCHASS JUNCT BOX			<del>                                     </del>	<del> </del>	D4600321			MA R	4600318	
1	ANAL-DIG CONVER 6MT1			1	04600322		1		MA R		4 1692

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				MARINE	R R 62		PAG	4.7	4-12-	63	
	WING LIST, OFFS		T	T	iv		, , I	VII	REL. FOR MISSI	-E HEYY	
			"	111				*11	SERIAL THRU, 1		SEQUEN
	NALOG-TO-DIGIT CONV		İ			A 460800			MA R		5 1693
	UBCHAS SINGLE CONN		ļ				D 460084		MA R		6 1694
	ARKING PN GENERATOR ARKING TRANSFER REG		ĺ				I 15	460818		460084	7 169
	ARKING CONVERTERS	<del>.</del>	ļ				l	460820		460084	7 169
	OMPARATOR & INTEGRA							460824			7 169
	NIV BISTABLE MODULE				_	<del> </del>	D 460892	457777	MA R	460800	
	CB COMPARATOR						l [				7 169
	CHEM CONVERTER		ļ ———		_	+		460891 460895			7 170
	ECODER						D 460894	. 4000033	MA R		6 170
	NIV BISTABLE MODULE				+			457777		460894	
	CB DECODER		į					460893			7 170
	CHEM CONVERTER						ii	460895		460894	
W	IRING LIST CONVERT						A 461702		MA R	460800	1 -
L	O LEVEL COMPAR 6A1			l	D460032	3			MA R	4900501	
Α	MPLIFIERS		İ			A 460807	1		MA R	4600323	
A	MPLIFIERS LOW LEVEL						D 457796		MA R	460807	
Ρ	CB AMPL LOW BAND						≱	457795	MA R	457796	7 171
- 5	CHEM AMPLSESIG COND						F	457797	MA R	457796	7 171
	OMPARATOR ISOL AMPL						D 460083		MA R	460807	6 171
	CHEM AMPLS&SIG COND		ĺ		i			2 457797	MA R	460083	7 171
	CB COMP ISOL AMPL						<u> </u>	460082			7 171
	UBCHAS DOUBLE CONN		l				D 460085		MA R	460807	6 171
	IRING LIST AMPLS						A 461708		MA R	460807	
	OMMUTATOR DECKS 6K2		1		D460032	1	l i		MA R		4 171
	OLID STATE DKS E&F	-	<u> </u>			A 460806			MA R	4600324	
	O LEVEL SWS DKS E&F		i		i i	}	D 457789		MA R	460806	
	WITCH LOW LEVEL CB SW MODULE UPPER		-	<u> </u>	<del></del>	-	ļ	449104 449101		457789	
	CB LO LEVEL SWITCH					}				449104	8 172
	ROMMET TEFLON #2					·	ļ ļ	3.449103			8 172
	NSULATION SH ELECT		1		1	1	1	3 4577 <b>39</b>		449104	
	HIELD SWITCH		<del> </del>	<u> </u>	+	+	<del> </del>	45774 <b>0</b>			8 172
	CHEM SW LOW LEVEL				1	1	1 1	. 45777 <b>0</b>			8 172 8 172
	CB DECKS E&F		<del> </del>	<del> </del>	+	<del> </del>		457788			7 172
	CHEM LO SPEED CTR				1			2 457790		457789	7 172
	OW SPEED COUNTER		<del> </del>		1		D 460037	21130	MA R	460806	
	NIV BISTABLE MODULE				f	1		457777		460037	7 173
	CHEM LO SPEED CTR							3 457790			7 173
M	ATRIX LO SPEED CTR			l	1	1		460011		460037	7 173

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			471		R R 62		PAG	E 48	4-	-12-63		
) R	RAWING LIST, OFFS	ET										
**	TITLE		11	111	IV	v	٧ı	VII		N MISSILE	HEXT OFF.	SEQUENC
'1	OCB TO SPEED THE								BERIAL			
	PCB LO SPEED CIR LOW PCB LO SPEED CTR UP				1			B 460009				17330
4	SCHEM LO SPEED CTR		<del> </del>					B 460010				17340
	PCB LO SPEED COUNTER							460012				17350
4	SUBCHAS DOUBLE CONN		ļ				N // N N N L	F 460036		1		17360
1	WIRING LIST DKS E&F						D 460085 A 461707		MA P		460806 6 460806 6	17380
4	DECKS 0 1 263 6K1				04600325		A 401/U/		MA F	1	4900501 4	
٦	SOLID STATE DES ABOD					A 460805			MA F			
4	SOLID STATE DES CED					40000	D 457763			1	4600325 5	
1	SWITCH HIGH LEVEL		1				D 401105	C 449102			450805 6 457763 7	
+	PCB DECKS C&D							F 457762			457763 7	
۵	UNIV BISTABLE MODULE		1					C 457777		1		1744
7	PCB UNIV BISTABLE #1		<del></del>					B 457775		1		1745
1	PCB UNIV BISTABLE #2		1					B 457776		1	457777 8	
4	SCHEM UNIV BISTABLE							C 457778		1 1		1747
1	SCHEM HI SPD BINARY		1					C 457779				1748
+	SWITCH FLIP FLOP		+		<del></del>			C 457782		1		1749
٨	GROMMET TEFLON #1							B 457738				1750
4	INSULATION SH ELECT		+					8 457740		1 1		1751
À	SHIELD SWITCH							C 457744		1 1		1752
7	PCB SW FLIP FLOP LO		+							-		
1	PCB SW FLIP FLOP UP							8 457780		- 1		1753
+	SCHEM SW FLIP FLOP		- <del>  </del>		+			8 457781 457783	MA F	<del>,                                    </del>		1754
1	SCHEM DECKS A&B C&D							R 450062			457782 8 457763 7	1755
+	SOLID STATE DES AGB		· · · · · · · · · · · · · · · · · · ·				D 457769	R 400000Z	MA F		460805 6	
1	PCB DECKS A&B						0 427702	F 457768			457769 7	
A	UNIV BISTABLE MODULE		<del></del>		<del> </del>			C 457777				1759
	SWITCH FLIP FLOP							C 457782		1		1760
7	SCHEM DECKS AGB CGD		1					R 460062				1761
-	SUBCHAS DOUBLE CONN		1 1				D 460085		MA F		460805 6	
1	WIRING LIST DKS ABCD		1				A 461706		MA F			1763
A	BLIP REGISTERS 6MT4				04600326		, , , , , , ,		MA F			1764
1	BLIP REGISTERS		1			A 460803			MA F		4600326 5	
-	BLIP REGISTER #1						D 460023		MA F		460803 6	
Ā	UNIV BISTABLE MODULE		1					C 457777				1767
-1	PCB BLIP REGISTER #1					i		F 460022		1		1768
7	SCHEM BLIP REGISTER		1					R 460026		₹ T		1769
-	BLIP REGISTER #2		1 1				0 460025		MA F	<b>ર</b>		1770
Ā	UNIV BISTABLE MODULE		T					C 457777	MA F	₹		1771
- 1	PCB BLIP REGISTER #2		1			!		F 460024	MA F	3	460025 7	

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			CA	LIFORNIA INS	TITUTE OF TECH	NOLOGY, PASAI	DENA, CALIF.		DATE LISTED	4	
) F	RAWING LIST, OFFSI	EΥ		MARINE	R R 62		PAG	E 49	4-12-63		
	TITLE	ı	11	111	iv	٧	VI.	YII	REL. FOR MISSILE	NEXT OF ASSEMBLY CO	SEQUENCI NUMBER
7	SCHEM BLIP REGISTER					<del> </del>	<u> </u>	R 460026		460025	7 17730
١	SUBCHAS DOUBLE CONN					1	0 460085		MA R	1	6 17740
	MARKING BLIP REGS			1			100000	C 460819			7 17750
ı	MARKING DECKS ABCD			1	1	1		C 460821			7 17760
٦	MARKING DECKS E&F			1				C 460822			7 17770
1	MARKING AMPLIFIERS			[				C 460823			7 17780
Ī	WIRING LIST BLIP REG			Î			A 461701		MA R		6 17790
В	TRANSFER REGIST 6MT3				04600327	7		·	MA R	4900501	4 17800
4	SUBCHASSIS MACHINED					D3158416			MA R		5 17810
4	TRANSFER REGISTER			l	.l	A 460802	1		MA R		5 17820
1	COUNTER MASTER			1	1		D 460049		MA R	460802	6 17830
4	UNIV BISTABLE MODULE							C 457777	MA R	460049	7 17840
1	MONOSTABLE FLIP FLOP			1	]	İ		C 460046	MA R	460049	7 17850
4	PCB MASTER COUNTER							F 460048	MA R	460049	7 17860
ı	SCHEM MA CTREXFR REG				1	1		R 460061	MA R	460049	7 17870
4	SUBCHAS SINGLE CONN						D 460084		MA R	460802	6 17880
ı	TRANSFER REGISTER						D 460899		MA R	460802	6 17890
4	SWITCH FLIP FLOP			L		<u> </u>		C 457782	MA R	460899	7 17900
١	SCHEM MA CTREXER REG			l				R 460061	MA R	460899	7 17910
4	PCB TRANSFER REGIS			<b>!</b>				F 460898	MA R	460899	7 17920
1	WIRING LIST TRAN REG				ĺ		A 461704		MA R	460802	6 17930
y	PN GENERATOR 6MT2			-	D4600328				MA R	4900501	4 17940
٦	SUBCHASSIS MACHINED PN GEN FREQEMOD CKTY	ł		l .	1	D3158416	1 1		MA R		5 17950
ł	PN GEN/FREGEMOD CKTY			<del> </del>		A 460801			MA R		5 17960
ı	SWITCH LOW LEVEL	- 1		Ì	ŀ		D 460073		MA R		6 17970
ł	UNIV BISTABLE MODULE			<del> </del>	<del></del>	ļ		C 449104	MA R		7 17980
1	MAIRIX PN GENERATOR				1		1 1	C 457777	MA R		7 17990
t	PCB MATRIX PN GEN LO				+			C 460007	MA R		7 18000
1	PCB MATRIX PN GEN UP			i	1			B 460005 B 460006	MA R		8 18010
t	SCHEM MATRIX PN GEN				1						8 18020
١	PCB PN GENERATOR	}			1			C 460008	MA R MA R		8 18030
t	SCHEM PN SENERATOR				+			F 460072 R 460074	MA R	460073	
١	SUBCHAS SINGLE CONN					1	D 460084	A 4000/4	MA R		7 18050 6 18060
t	BIPHRASE MODULATOR				+		D 460897		MA R		6 18070
1	WIRING LIST PN GEN				1		A 461703	ļ	MA R		6 18080
4	ENCODER TR 6TR1			· · · · ·	04600329				MA R		4 18090
4	SUBCHASS MACHINED	1				04900033		- 1	MA R	4600329	
Ţ	POWER SUPPLY					A 460804			MA R	4600329	
ŀ	BUCKING POWER SUPPLY			1			0 460028	}	MA R		18120

,	RAWING LIST, OFFS	ĒΤ	CAI		TITUTE OF TECHE	IOLOGY, PASAI	DENA, CALIF. PAG	iE 50	4-12-63		
**	1 1	1	11	Iti	IV	٧	¥1	Au	REL FOR MISSILE	NEXT OFF.	SEQUENCE
	PEB BUCKING PWR SUP				1	<u> </u>		F 460027	MA R	4600 (8) 7	181300
_	SCHEM POWER SUPPLY							R 460029	MA R	460028 7	
-	HEAT SINK PWR SUPPLY		1				B 460069		MA R		181500
-	POWER SUPPLY						D 460076		MA R		181600
-	PCB POWER SUPPLY		1		1		İ	F 460075			181700
4	SUBCHAS POWER SUPPLY MARKING POWER SUPPLY			L			D 460086		MA R		181800
	WIRING LIST PWR SUP			İ	1		i	460817	MA R		18190
ᆔ	CHASS ASSY L-BAND						A 461705		MA R	460804 6	
4	STUD LOCK FEMALE			ŀ	µ4600333				MA R	4900501 4	
-	CONNECTOR INSTI					B 90312			MA R	4600333 5	
ł	TRANSDUCER		l			C 90314			MA R		182300
_	L-BAND RE BLOCK DGM					C4600161			MA R		182400
٦	BLK DGM PAN COAX CBL			İ	1		4 106421		MA R		182410
$\dashv$							5 106499		MA R		182420
ا،	INTERCONNECT L-BAND			i	1		B 119102		MA R	4600333 6	182430
-1	SHIELD CHASSIS ASSY					<u> </u>			MA R	460033315	182500
-	SURFACE TREATSHANDLE					İ	A 90302		MA R	4600339 6	182600
_,	WASHER						B4500154		MA R	4600339 6	182700
1	CLAMP WIRE			1	1	B4800078			MA R	4600333 5	182800
-1	CLAMP THERMOCOUPLE					B4800080			MA R	4600333 5	182900
-	ANGLE CONNECTOR					C4800314			MA R	4600333 5	
4	SURFACE TREATGHANDLE HINGE PIN							A 90302			183100
4						04900503			MA R	4600333 5	
끍	SCIENTIFIC ELEC ASSY CABLE RETAINING BRKT				U4800296				MA R	4900501 4	18330
4	LOUVER INSTL					03158874			MA R		183400
-	SCREW MACH					U4100416			MA R	4800296 5	
1	SCREW MACH PAN HD				1	i i	A 90346		MA R	4100416 6	
В	ACTUATOR ASSY LOUVER				<del></del>		A 90347		MA R	4100416 6	
Ä	ACTUATOR SPIRAL COIL						04100204		MA R	4100416 6	
굯	LOUVER ASSY				+			B4100228	MA R	4100204 7	
1	SURFACE TREATSHANDLE						C4100220		MA R	4100416 6	
4	SHAFT							A 90302	MA R	4100220 7	
7								B4100212	MA R	4100220 7	
7	BEARING ASSEMBLY SHAFT				<u> </u>			C4100214	MA R	4100220 7	
7			I		1			B4100215	MA R	4100214 8	
7	RETAINER SELF-LOCK				<b>_</b>			B4100216	MA R	4100214 8	
٦	BEARING	j			1 .			B4100217	MA R	4100214 8	
Ä	PAD							B4100218	MA R	4100214 8	
7	LOUVER ASSY	1			1			B4100219	MA R	4100214 8	
1	LUUVET ASSY				1			D4100221	MA R	4100220 7	184900

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DRAWING LIST, OFFSET

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Graf	1	11		IV	v	V1	VII	REL. FOR MISSILE	MEXT OFF	ROUENCE
CHE. TITLE	•							SERIAL THRU, SER.		
RIVET INSPECTION				i			A 90091	MA R		185000
SURFACE TREATSHANDLE			i				A 90302	MA R		185100
A HOUSING	i i		I	Į			64100222	MA R	4100220 7	185200
ADHESIVE			ļ				A 90091	MA R	4100222 [	1853 <b>06</b>
SURFACE TREATSHANDLE							A 90302	MA R		185400
N 4A1 PWR SWELOGIC	- 1				J4400046			MA R	4800296	185500
ADHESIVE				1		A 90091		MA R	4400046	185600
SPLICE WIRE				1		B 90153		MA. R	4400046	185700
SCREW LOCK MECH						8 90312		MA R	4400046	185800
CONNECTOR INSTL	1					90314		MA R	4400046	185900
LI SCHEMATIC DIAG						14400040		MAR	4400046	186000
H SUBCHASS ASSY PW SW	1		l	1		14400047		MA R		186100
B TRANSFORMER ASSY PWR				i		04400048		MA R	4400046	186200
ADHESIVE							A .90091	MA R	4400048	186300
D SCHEMATIC DIAG				Ī			J4400040	MA R	4400048	186400
XFORMER							64400049	MA R	4400048	7 186500
XFORMER							84400050		4400048	186600
C COVER ASSY			1	1		14400051		MA R	4400046	186700
E TELEMETERING OSC ASY						D4400053		MA R	4400046	186800
ADHESIVE	ļ		1	1			A 90091	MA R	4400053	7 186900
RESIN							A 90154	MA R	4400053	7 187000
WASHER SHOULDER			ł				년 90283	MA R	4400053	7 187100
d TRANSFORMER		-				<u> </u>	83152543	MA R	4400053	7 187200
d SCHEMATIC DIAG				1	1	1	J4400044	MA R	4400053	7 187300
A TRANSFORMER			1	1			84400052		4400053	7 187400
A SUPPORT TEL OSC PWR			1	1			D4400054	MA R	4400053	7 187500
d CB1							D4400055	MA R	4400053	7 187600
ADHESIVE				ì		1 .	A 90091	MA R	4400055	8 187700
D SCHEMATIC DIAG							D4400040	MA R	4400055	8 187800
B CB1			1	1			A4400055	MA R	4400055	8 187900
A PC TB1			T T				04400056	MA R	4400055	8 188000
A AMPLIFIER MAG ASSY							54400081	MA R	4400053	
WASHER INSULATION				1			A4400126		4400053	7 188200
B CB3					ļ	04400059		MA R	4400046	
B CB5 POWER SWITCHING						D4400063		MA R	4400046	6 188400
D SCHEMATIC DIAG				1	ł		04400040	MA R	4400063	7 188500
A PC CB5			1	1			J4400064	MA R	4400063	
CHOKE LZ PWR SWELOGD			1	1		84400216		MA R	4400046	
LUG TERMINAL			1-			84400218		MA R	4400046	6 188800
THOKE L3			1	1		84400219		MA R	4400046	6 188900
1 2.13.12 25			·				·			JPL 0814 JVRE 61

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	YITLE			111	19	y	٧١	<b>V</b> ()	REL. FOR MISSIL		REQUENCE NUMBER
ä		•		""	, "			*"	SERIAL THRU. S		
Ħ	SCI PWR SW SUBASSY					U4800252			MA R	4800296 5	
F	SCI PWR SWITCHING			L			A4800252	PL	MA R	4800252 6	
Ħ	SCI PWR SW SCHEMATIC				ĺ	1	04800253		MA R	4800252 6	
Α	SUBCHASSIS						04800254		MA R	4800252 6	
q	PC CB1 SCI PWR SW						J4800255		MA R	4800252 6	
8	23A1 PLASMA ELECTRON			1		U4800261			MA R	4800296 5	
7	WASHER INSULATED						B 90284		MA R	4800261 6	18910
ļ	STUD LOCK				1		B 90312		MA R	4800261 6	18920
1	CONNECTOR INSTL						C 90314		MA R	4800261 6	18930
١	TRANSDUCER				1		C4600161		MA R	4800261 6	
A	REED CAPACITOR			T			D4800256		MA R	4800261 6	18950
-	SUPPORT ASY VIB REED			1	1	i		D4800392	MA R	4800256 7	18960
7	BUSHING VIB REED CAP						1	34800393	MA R	4800256 7	18970
1	VIB REED CAPACITOR				1			04800394	MA R	4800256 7	18980
A	SUBCHASS ASSY						J4800260		MA R	4800261 6	18990
-	INSULTR SUBCHAS SOLR				1		1	84800437	MA R	4800260 7	19000
$\dashv$	INSULATOR SUBCHASSIS			1	<del></del>	<u> </u>	†	84800438	MA R	4800260 7	
١	INSULATOR SUBCHASSIS					1		64800439	MA R	4800260 7	
A	DEFLECTION PLATE ASY				+		04800290		MA R	4800261 6	19030
	SPACER			1				84800091	MA R		19040
1	WASHER SHOULDER				1			84800092		4800290 7	19050
1	WASHER			1				84800093		4800290 7	
+	WASHER			<b>†</b>	1	1		84800096			19070
Α	SPACER SOLAR CORPUS			i				84800273			19080
+	STUD SOLAR CORPUSCUL			1				B4800274		4800290 7	
	GROUND PLANE SCRE				1	1		C4800275	MA R	4800290 7	
В	GROUND PLANE ENTRAN							C4800276	MA R	4800290 7	
A	COLLECTOR SOLAR CORP							K4800277		4800290 7	
A	SUPPRESSOR SOLAR COR							C4800278		4800290 7	19130
1	INSULATOR DEFLECTION							C4600279		4800290 7	
A	GROUND PLANE EXIT			1				C4800280		4800290 7	
۵	INSULATOR SUPPRESSOR				1		1	4800281		4800290 7	
-	INSULATOR CHANNEL				1			C4600282		4800290 7	
-	INSULATOR CHANNEL			1	1			C4800283		4800290 7	
+	INSULATOR SUPPRESSOR			1	<del>                                     </del>			C4600284		4800290 7	
۵	SHIELD COLLECTOR			1	1			D4800285		4800290 7	
7	PLATE GROUND PLANE				-			04800286		4800290 7	
ĺ	PLATE GROUND PLANE			1	1			04800287		4800290 7	
-	DEFLECTOR PLATE ASSY			<del>                                     </del>				D4600288		4800290 7	
- 1	DEFLECTOR PLATE ASSY		l	1	1	1		D4800289			19240
l	DELECTOR PEATE MOST			1		1	1	P.000E01	1	1 .0005.0	1 4/57

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			CAI	IFORNIA INST MARINEI		HNULOGY, PAS	ADENA, CALIF. PAG	E 53	4-12-6	3		
D F	RAWING LIST, OFFS	ET								<u> </u>		
: #4. L41		1	"	171	14	٧	YI	¥II	REL. FOR MISSILE STRIAL THRU, SEE	NEXT ABBEMBLY	E F F.	SEQUENCE NUMBER
	TERMINAL COLLECTOR				1			84800389		4800290	17	192500
4	ELECTROMETER SCHEM		ļ		<del> </del>		U4800341		MA R	4800261		192600
	SW ASSY ELECTROMETER		1		i		J4800391		MA R	4800261		192700
-1			ļ		<del> </del>		D4800396		MA R	4800261		192800
	TRANSIPAD INSTL				ŀ			A 90127		4800396		192900
4	TRANSIPAD INSIL				<del> </del>			A 90303		4800396		193000
J	SCHEMATIC DIAG							J4800341		4800396		193100
-3	CB1 PLASMA ELECT		ļ		<del> </del>			A4800396		4800396		193200
7	CB1 PC PLASMA ELECT				1			J4800397		4800396		193300
벽	CB2 PLASMA ELECT		<del> </del>		+		D4800398		MA R	4800261		193400
٦	TRANSIPAD INSTL		i		ı	1	i i	A 90127		4800398		193500
4	CB2 PLASMA ELECT				<del> </del> -	+	<del></del> -	A4800398		4800398		193600
٩	CB2 PC PLASMA ELECT		i		İ	1		J4800399		4800398		193700
-+	CB3 ASSY PLASMA ELECT		-		<del> </del>		D4800400		MA R	4800261		19380
						ı	1 :	A4800400		4800400		193900
┪	CB3 PC PLASMA ELECT		-		<del> </del>	<del>-  </del>	0.000.00	C4800401		4800400		194000
1	TRANSIPAD INSTL		i				D4800402		MA R	4800261		
┪	SCHEMATIC DIAG		!		· <del> </del>	+	<del></del>	A 90127 J4800341		4800402		194200
٦	CB4 ASSY PLASMA ELEC					l		J4800341 A4800402		4800402		
7	CB4 PC PLASMA ELECT		<u> </u>		<del> </del>	-				4800402		194400
1	SUB-CHASS UPPER PLAS				-	1	04800404	J4800403	MA R MA R	4800402		194500
7	WASHER SHOULDER				<u> </u>	<del>  •</del>	84800405		MA R	4800261		194600
-	TRANSFORMER SHIELD				1	1	C4800403		MA R	4800261 4800261		
7	COVER WELDMENT REED		·		<del>                                     </del>		D4800414		MA R	4800261		
١	TERMINAL BOARD					1	84800477		MA R	4800261		
7	TERMINAL BOARD		ł		<del>                                     </del>	<del> </del>	B4800478		MA R	4800261		195100
	TERMINAL BOARD		1		1	1	B4800477		MA R	4800261		195100
7	TERMINAL BOARD				<b>†</b>		84800478	-	MA R	4800261		195300
	TERMINAL BOARD		i l			i i	84800479		MA R	4800261		195400
त	23A2 PROGRAM SUBASSY		† · · · · · · ·		<del>                                     </del>	J480026			MA R			195500
٦	TRANSIPAD INSTL		l i			3400020	4. 90127		MA R	4800296		195500
7	STUD LOCK				†	<del> </del>			MA R	4800263		
	CONNECTOR INSTL				1		8 90312 C 90314		MA R	4800263		
đ	SCHEMATIC DIAG		1				J4800251		MA R	4800263		
À	PROGRAMMER SOL PLAS		]		1	1	A4800263	PI I	MA R	4800263	2	196000
百	PROGRAMMER SUBCHASS					1	04800264	-	MA R	4800263		
.]	INSULATOR SUBCHASSIS		<u> </u>		l	1		84800440	MA R	4800264	7	196200
T	INSULATOR SUBCHASSIS				l			84800441		4800264		
В	CB1 PC PROGRAMMER		t I			İ	U4800265		MA R	4800263		196400
_												OSIA JUNE S

			MARINE	R 62		PAG	E 54	4-12-63	s		
AWING LIST, OFFS	ET							T 12 0			
TITLE	1	n	131	IV		VI	VII	BEL. FOR MISSILE SERIAL THRU, SER		orr. SE	(0)
CB2 PC PROGRAMMER				<del>†                                      </del>		J4800266		MA R	4800263	6 19	96
23A3 SWEEP AMPL				1	04800268	3		MA R		5 19	
SWEEP AMP SCHEMATIC			-			J4800250		MA R	4800268	6 19	je
SUBCHAS SWEEP AMP	. 1			1	1	D4800269		MA R	4800268	6 19	) (
INSULATOR SUBCHASS							B4800442	MA R	4800269	7 19	5
INSULTR SUBCHAS SWP						1	B4800443		4800269	7 19	λ.
CB1 ASSY SWEEP AMPL						U4800365		MAR	4800268	6 19	۲.
TRANSIPAD INSTL				1	. 1	1	A 90127		4800365	7 19	)
SCHEMATIC SWEEP AMPL							J4800250		4800365	7 19	,
CB1 PC SWEEP AMPLIF							J4800270		4800365	7 19	)
CB1 SWEEP AMPLIFIER		Ī				-	A4800365	MA R	4800365	7 19	)
CB2 ASSY SWEEP AMPL					_l.	J4800366		MA R	4800268	6 19	,
SCHEMATIC SWEEP AMPL				I			J4800250	MA R	4800366	7 19	7
CB2 PC SWEEP AMPLIF					. 1		U4800271	MA R	4800366	7 19	,
CB2 SWEEP AMPLIFIER							A4800366	MA R	4800366	7 19	7
BRACKET TRANSFORMER				!	Ì	C4800367	1 1	MA R	4800268	6 19	1
DISARMING CONN SUBAS				1		B4800371		MA R	4800268	6 19	7 (
TRANSFORMER SWEEP AM				L		B4800372		MA R	4800268	6 19	) (
20A21-20A24					D4800291			MA R	4800296	5 19	7 8
CONNECTOR INSTL		l		<u></u>		C 90314		MA R	4800291	6 19	) (
22A2/22A3 MAGNET ENV	1	ì			D4800293	4		MA R	4800296	5 19	) {
CONNECTOR INSTL				L		C 90314		MA R	4800293	6 19	18
SUBCHASSIS MAG EL				ł		4901000		MA R	4800293	6 19	3 (
ML104-1 MAG TEST SET				L		R T50067	101	MA R	4800293	6 19	18
BLANK PANEL & CARRY	1			1			RSP30003	MA R	T50067	7 19	3 (
CASE ASSY PANEL MTG							R5P30004	MA R	SP30003	8 19	8
PANEL ASSY LWR BLANK				1			RSP30005	MA R		8 19	
PANEL ASSY LID BLANK				L			RSP30006			8 19	
TEST SPEC CHECK UNIT				ı			A 540003			7 19	
SCHEM CHECKOUT CASE		l					R T50031	MA R	T50067		
TB1 MAG TEST SET						ļ	C 50141	MA R	T50067	7 19	18
TB1 MAG TEST SET						<u> </u>	B T50118			8 19	
TB2 MAG TEST SET	i				1	1	C 50142	MA R	T50067		
TB2 MAG TEST SET				<u> </u>	.	ļ	B T50119		50142		
TB3 MAG TEST SET	I	1		1		ĺ	C 50143		T50067		
BRACKET TERMINAL BD				L	<u> </u>		ASP30052		50143		
TB3 MAG TEST SET	J	}		1			B T50120		50143		
WIRING LIST CHECKOUT					1		A 50144	MA R	T50067		
CABLE HARNESS	ł				1		D 750156		150067		
ML104-2 MAG TEST SET				1	1	R 150067	102	MA R	4800293	61 19	ß

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D F	AWING LIST, OFFS	ΕT		MARINER	R 62		PAG	£ 55	4-12-	63		
C#4.	TITLE		li .	161	IV	γ	YI	Ast	REL. FOR MISS SERIAL THRU.	NEXT	col.	SEQUENCE NUMBER
Н	MA-R CHECKOUT ADAPTR							D 50288	MA R	T5006	7	198529
ļ	ML126-1 MAGNETOMETER			J			1 50180		MA R	480029	. 6	198530
П	TEST SPEC CHECKOUT				I			A 540064	MA R	50180	7	198531
	TRI-AX MAG PROBE ENV							A 50124	MA R	50180	7	198532
П	TRI-AX MAGNETMIR ENV	, , , , , , , , , , , , , , , , , , , ,						0 50179	MA R	50180	7	198533
П	MAGNETOMETER ASSY			l				J 50180	MA R	50180		198534
	INSULATING SPACER							BSP30079	MA R	50180	8	198535
1	INSULATING WASHER					l		8006930	MA R	50180	8	198536
П	CB TRIAX FLUX MAG				i .			J 50243	MA R	50180	8	198537
	BISTABLE MULTIVIB				ļ			C. Fine	MA_R	50243	9	198538
	TRIGGER MODULE				ł			A 1400	MA R	50243	9	198539
П	DUAL DC INVERTER MOD			l	1		1	A 1502	MA R	50243		198540
	DUAL AC EMITTER				ĺ		1	C #603	MA R	50243	k k	198541
ı	RC AMP MODULE				I		1	A F803	MA R	50243	9	198542
	RC AMP MODULE						ĺ	A F804	MA R	50243	શ્રે બ્ર	198543 198544
Ш	RC PARAPHASE AMP MOD		İ		1		1	4 F900	MA R	50243	9	198544
	TUNED AMP MODULE							C F1000	MA R	50243	9	198545
	PUSH PULL AMP MODULE			1			1	A F1100	MA R			198546
Г	FLUXGATE SPECIAL MOD							A £4001	MA R	50243	9	198547
ı	INDUCTOR		l				1	A5F30000	MA R	50243	1 9	198548
Г	TRANSFORMER				1			ASP30001	MA R	50243	9	198549
	TRANSFORMER						İ	AbPB0001	MA R	50243		198550
	TRANSFORMER							ASP30001	MA R	50243	9	198551
1	BAND PASS FILTER				1		<u> </u>	lase Japaz	MA R	5024	9	198552
	TRANSFORMER						i	ASP30031	MAR	50243	اولا	198553
	TRANSISTOR							ASP 30061	MA R	50243	وا	198554
Г	CB TRI FLUXGATE MAG							0 50242	MA R	50241	9	198555
	BOARD ASSY							n. 50242	MA R	5024	9	198556
Г	BOARD			1				0 50242	MA R	50242	2 9	198557
i	CIRCUIT MASTER		L				1	J .50241	MA R	5024	2 9	198558
	BOARD INSULATOR				1	ĺ		D 50242	MA R	50242	9	198559
	CIRCUIT BOARD ASSY		l		1	l		A 50246	MA R	50180	8	198560
	MONOSTABLE MULTIVIB							E 201	MA R	50246	8	198561
l	REFERENCE MODULE		I		1			A 64000		50246		
	DUAL RELAY DRIVER				1			A F4004				198563
1	INDUCTOR		1				1	ASPAGGA		50246		
1	TRANSFORMER		I	1				ASP3004	MA R	50240		198569
1	CB PWR SUP & LEC			1	1		1	n53245	MA R	50244	<b>a</b>	198566
	BOARD ASSY		i	1				0 50245	MA R	5024	9	198567
1	BOARD DETAIL		Į.	!			1	0. 50245	MA R	5024		

JET PROPULSION LABORATORY

JET PROPULSION LABORATORY

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

MARTINER R 62

Property 155

4-12-63

# <b>*</b>	TITLE	1	11		ıγ	v	V1	VII.	REL. FOR MISSILE	NEXT	SEQUENCE
매							<u>i</u>		SERIAL THRU, SER.	ABSEMBLY COL.	I .
	CIRCUIT MASTER				ĺ			, 150244		50245  9	
	BOARD INSULATOR								MA R	50245 9	
	POTTING CUP MODIFIED						1		MA R	50246 9	
1	HOUSING				l				MA R	50180 8	
	HOUSING							50261			19857
	BRACKET								MAR		19857
	ANGLE				1	i			MA R	50261 9	
	TRIAX FLUXGATE MAG						1		MA R	50180 7	
	CB ASSY MAGNETOMETER								MA R	50180 8	
	BISTABLE MULTIVIBR								MA R	50243 9	
_	TRIGGER MODULE			Ī		1			YA R	50243 9	
	DUAL DC INVERTER MOD				1	1		F502		50243 9	19858
Т	DUAL AC EMITTER					1		F 603		50243 9	
	RC AMP MODULE			1	l		!		MA R	50243 9	19858
	RC AMP MODULE							F80-	MA R	50243 9	19858
	RC PARAPHASE AMP MOD					İ		C F900	MA R	50243 9	19858
	TUNED AMP MODULE		1					F1000	MA R	50243 9	19858
	PUSH PULL AMP MODULE						1		MA R	50243 9	19858
-	FLUXGATE SPECIAL MOD						T	F400I	MA R	50243 9	19858
	INDUCTOR					ì	1	43P30000	MA R	50243 9	19858
	TRANSFORMER					i		43P30001		50243 9	
i	TRANSFORMER				Į.			45230001			19859
_	TRANSFORMER		†			1		A 50 30003		50243 9	19859
	BAND PASS FILTER			1		1		CSP30002		50243 9	
_	TRANSFORMER		t	1			1	A 5 P 3 0 0 3 3		50243 9	
	TRANSISTOR		1	1				A5P30061	MA R	50243 9	19859
_	CIRCUIT BOARD		ļ <del></del>				1	0 50242		50243 9	19859
	BOARD ASSY			i		1	i	D. <u>5</u> 0242	MA R	50242 9	19859
_	BOARD DETAIL					1		50242		50242 9	
	CIRCUIT MASTER		1			1	1	J T50241		50242 9	
	BOARD INSULATOR						1	50242		50242 9	
	CB3 ASSY		1		1			50243		50160 8	
_	BISTABLE MULTIVIER		<del> </del>	†	t	<del></del>		C F100		50243 9	
	TRIGGER MODULE		1					F F400		50243 9	
	DUAL DC INVERTER MOD		<del> </del>	<del> </del>		1		A F502		50243 9	
	DUAL AC EMITTER		1		!			C F603		50243 9	
_	RC AMP MODULE			<del>                                     </del>	<del> </del>	+	<del>-  </del>	A F80		50243 9	
					1			д F804			
	RC AMP MODULE		<del> </del>	<del>!</del>	<del> </del>	+	+			<u> </u>	
	RC PARAPHASE			1	1			6 F1000	MA RI	50243 9	7 19860 7 19860
	TUNED AMP MODULE		1	1	1			<u>كالمالي غاتا</u>	<u>a na ri</u>	50243[9	1 1700

	AWING LIST, OFFSE	: 7			TITUTE OF TECHN RR 62	OLOGI, PASAL	PAG	E 57	4-	-12-63	]		
, K	TITLE		ıı .	nı	iy	٧	γi	VII	REL. FO	R MISSILE	NEKT ASSEMBLY	01F.	BEQUENCE
7	PUSH PULL AMP MODULE			1				A F1100			502+	9	19860
4	FLUXGATE SPECIAL MOD			1				A F4001	MA I	3	نە22 فىس	9	19861
1	INDUCTOR			l	i i			ASP30000		3	50243		19861
4	TRANSFORMER			1				ASP30001	_MA_I	1 -	50243		1986
ł	TRANSFORMER			l	1			ASP30001	MA i		50243		1986
4	TRANSFORMER			<b>↓</b>				ASP30001	MA J	3	50243	1 9	1986
1	BAND PASS FILTER				1	ļ		ASP30002		ય	50243		1986
4	TRANSFORMER				+			DSP30031	MA	3	50243		19861
ĺ	TRANSISTOR			ļ				ASP30061		₹	50243		1986
+	CIRCULT BOARD			<del> </del>	+			D 50242	MA		50243		1986
1	BOARD ASSY			ļ	1			D 50242			50242		1986
4	BOARD DETAIL			+				D 50242		3	50242		1986
1	CIRCUIT MASTER			İ	1		l	J T50241	MA I	3	50242		1986
4	BOARD INSULATOR			<del> </del>	<del></del>	ļ		50242	MA	4	50242	4 4	1986
1	HOUSING			İ				J 50261	MA	7 1	50180		1986
4	HOUSING			-				J 50261	MA	4	50261		
1	SCHEMATIC			İ	1		ì	H 50227	MA	1	50180		1986
4	WIRING DGM			<del></del>				R_ 50275			50180		19862
1	WIRE LIST				1		1	8 50283	MA F		50180		19862
+	LAYOUT MAGNETOMETER			+		·		1.150285	MA I	4	50180		1986
4	SYS WIRING DIAGRAM							C 50289	MA 8	1 (	50180 4800296		1985
٩	CHASSIS ASSY STUD LOCK FEMALE					J4800297			MA F	<del>,                                     </del>	4800297		1988
1	CONNECTOR INSTL			ı			B 90312 C 90314	1	MA A	1 1	4800297		19890
+	TRANSDUCER			1			C4600161		MA F	<b>+</b>	4800297		19900
٨	CLAMP WIRE				1	)	B4800181		MA F	1	4800297		19910
7	CLAMP THERMOCOUPLE					<b></b>	B4800080		MA F	<del>\</del>	4800297		19920
7	ANGLE CONN MOUNTING						C4800314		MA F		4800297		1993
7	RISEB CLAMP WIRE NOZ						B4800326		MA F		4800297	1	19940
1	SHIELD CHASS ASSY				1	Ì	14800406		MA		4800297		1995
4	COMPOUND POITING						J4800408	B 90024	MA A	\$	4800406		19960
1		ĺ			1			B 90024 A 90302		1			19900
+	SURFACE TREATEHANDLE WASHER			+	1	l	· · · · ·	A 90302 B4500154	MA I	1	4800406		
- [	HINGE PIN				1		04900503	04200134	MA		4800406 4800297		19980
古	DATA CONDITION 20A25			<del>                                     </del>	1	D4800298			MA	1	4800296		20000
٦	CONNECTOR INSTL			1	1	07000270	C 90314		MA	રો	4800298		20010
1	SUBCHASSIS DATA COND			1	1		04800340		MA I	₹	4800298		20020
- 1	OP SHIELD SCI EQUIR			L	14800407				MA I	3	4900501		20030
а	CHASS ATTITUDE CONT				J4900502			_	MA F	2	4900501	4	20040
ы	PACK INSTALLATION			1	1	J4100223			MA F	₹	4900502		20050
_												18	SI4 JUNE

R	AWING LIST, OFFSE	: T			PULSION TUTE OF TECHN R 62			Ē 58	4-12-63			
::	TITLE	1	ıı	10	I¥	У	VI	Vii	REL. FOR MISSILE	NEXT ABSEMBLY	off.	SEQUENCI
3	HOUSING ASSEMBLY						04100201	B4100209	MA R MA R	4100223 4100201		20060
А	HOUSING ASSY HOUSING ASSEMBLY						D4100202	D4100225	MA R MA R	4100201 4100223		20080
A	STOP HOUSING ASSEMBLY							B4100209 B4100225	MA R MA R	4100202		20100
đ	PLATE LOUVER END ATT CONTROL GYRO 7A1					D4200368	C4100203		MA R MA R	4900502		
4	GYRO SUBCHASSIS ASSY PIN LOCATING DIAMOND						J4200369	B 90089	MA R MA R	4200368 4200369		20140
A	INTEGRATING GYRO ASY CONTROL GYRO SCHEM						D4200381 D4200393		MA R MA R	4200368 4200368	6	20160
4	CBI ATTITUDE CONT						J4200394		MA R MA R	4200368	6	20180
4	CB1 ATTITUDE CONTROL				<b></b>			A4200394	MA R	4200394	7	20200
Ā	INDUCTOR CONT GYRO							U4200395 B4200399	MA R	4200394	7	20210
3	CB2 PC ATTITUDE CONTROL	-			<u> </u>		D4200396	J4200397	MA R	4200368 4200396	7	2024
A	TRANSDUCER CLAMP WIRE					<u>C4600161</u> B4800078			MA R	4900502 4900502	5	2025
4	CLAMP THERMOCOUPLE HINGE PIN ELECT BOX				<u> </u>	B4800080 D4900503			MA R	4900502	5	20280
4	HINGE INSTALLATION BRACKET DA-15 CONN		1			D4900504 C4900505			MA R	4900502 4900502	5	2029
В	SHIELD CHASSIS SHIELD CHASS ASSY					C4900506 J4901001			MA R MA R	4900502		2031
+	SURFACE TREATGHANDLE WASHER				<del> </del>		A 90302 B4500154		MA R	4901001		20330
A	SOLAR CELL ASSY CLAMP WIRE				ļ	C4901002	B4800078		MA R	4900502 4901002	5	20350
1	TERMINAL BD SOL CELL TERMINAL INSTL			;			C4901003	B 90092	MA R	4901002	6	
1	SHIELD THERMAL INSTL		J4100410	A 90347	,			70072	MA R	4100309	2	
	SHIELD BAY B TO C			D4100406					MA R	4100410	3	20410
1	SHIELD LWR THERMAL			D410040	04100411				MA R	4100407	4	20430
	SURFACE TEMPERATURE SHIELD BAY E TO F			D4100408	C4600177				MA R MA R	4100407 4100410	3	20440 2045

DRAWING LIST, OFFSET

		LABORATORY DLOGY, PASADENA, CALIF.		DATE LISTED
MARINER	R 62	PAGE	. 44	4-12-63

	TITLE	11	л	rv	y	γi	VII	REL. FOR MISSILE	MEKT ABSEMBLY	.,]	REQUENCE
1	TITE.	 	,,,	.,	· ·		***	SKUTAL THRU, SEA.	ABSEMBLY	36.	BEQUENCE NUMBER
П	SHIELD BAY A TO B		D4100409					MA R	41004	3	204600
1 1	SURFACE TREATMENT		-	A 90302				MA R	410040	4	204700
П	SHIELD BAY C TO D		D4100412					MA R	4100410	3	
	SHIELD BAY D TO E		D4100413		l			MA R	+100410		
П	SHIELD BAY F TO A		D4100414					MA R	4100410	3	205000
1 1	CLIP MOUNTING MICRO	84100442						MA R	4100309	1 2	2051nn
П	RADIOMETER GUARD INS	04100454						MA R	4100309	2	205110
	ROD END ASSY	C4100490						MA R	4100309		205200
П	HOUSING BEARING		C4100491					MA R	4100490	3	205300
	BUSHING ROD END	1	84100492		l			MA R	4100490		
П	INSERT		84100493					MA R	4100490	3	205500
Ш	SET SCREW MODIFIED	 1	84100516					MA R	4100490		
П	UNIT MIDCOURSE PROP	J4700300						MA R	4100309		
11	UNIT MIDCOURSE PROP		J4700301		l			MA R	4700300		
П	WASHER C SUNK			C 90273				MA R	4700301	14	
H	SURFACE TREATMENT			A 90302				MA R	4700301		206000
П	SHIELD THERMAL			C3157816				MA R	4700301	4	206100
18	CABLE INSTL MCPU			J4700302				MA R	4700301		
П	FUEL SYS INSTALLATON				J4700303			MA R	4700302		
1	NITROGEN SYS MIDCOUR	1	l		- 00-0-	14700304	1	MA R	4700303		206400
П	O RING STANDARD						0 90568		4700304		
H	WASHER						C3151800		4700304		
$\Box$	START SYS MIDCOURSE	 1					J4700305		4700304		206700
H	WASHER C SUNK	1					C 90273		4700305		
П	GASKET						B3157523		4700305		
H	ENG MIDCOURSE PROPUL						14700311	MA R	4700305		
T	ENGINE ROCKET ASSY	1				T	D3153000	MA R	4700311	9	207100
LA	ENGINE WELDMENT						03153010		3153000		
П	INJECTOR ASSEMBLY				1		J3153011	MA R	3153010		
LA	INJECTOR WELDMENT	 				L	3153030	l j	3153011		
u	SCREEN						C3153015	MA R	3153030		-0 00
18	INJECTOR COATED				ļ		C3153031	MA R	3153030		
A	INJECTOR WELDMENT						03153032	MA R	3153031		207700
l a	CLOSURE	1					84153012		3153032		
H	NOZZLE SPRAY PROPPL		I				83153013		3153032		207900
19	DOME INJECTOR	1			l	1	D3153016		3153032		
A	TUBE PROPELLANT						C3153022		3153032		208100
Ιd	SCREEN	 		l		<u> </u>	C3153015		3153022		208200
A	TUBE SECTION FWO						03153023		3153022		208300
A	TUBE FLANGE SLCT	!	1	l	l	1	0 3153024		3153022		208400
_		 ***************************************		•							L OBIA JUNE 61

	JET PROPULSION LABORAT			DATE LISTED
DRAWING LIST, OFFSET	MARINER R 62	PAUE	60	4-12-63

	CAWING LIST, OFFS	<del> </del>				,						
	TITLE	1	11	m	IV	٧	VI	114	REL. FOR MISS		JIF.	SEQUENCE HUMBER
H	TUBE OXIDIZER WELD					<del> </del>	<del> </del>	C3153026		315303	. 9	208500
I d	SCREEN						1	C3153015	MA R	315302		208600
$\Box$	TUBE OXIDIZER					1		B3153028	MA R	315302		
11	TUBE OXIDIZER SECTN							B3153035	MA R	315304		208800
П	FLANGE OXIDIZER BLNK							B3153029	MA R	315303	2 9	208900
I A	NOZZLE SPRAY OXIDZR							B3153014				209000
17	TUBE OXIDIZER SECTN							B3:53027	MA R	315303	5 9	209100
19	SHELL WELDMENT				Į.			03153033				209200
13	NOZZLE WELDMENT							C3153019				209300
19	SCREEN							C3153015				209400
A	NOZZLE				1			03153020	MA R	315301		
18	ROD SUPPORT					l		63153021		315301		209600
17	SHELL COATED				1			C3153034		315303		209700
18	SHELL							C3153017		315303		
П	STRUCTURE ASSEMBLY							J4700310		470031		
L	WASHER C SUNK							C 90273		470031	0 9	210000
19	SUPPORT CONT ASSY				1			D3157103		470031		
14	SUPPORT CONT WELDMAT							D3157117		315710	3 9	210200
ΓA	ROD SUPPORT							C3157116				216300
LA	FORWARD RING							D3157118				210400
11	ANGLE RING					1		D3157137				210500
LA	STRUT CONT SUPPORT				1	ļ		D3157132				210600
11	STRUT WELDMENT							C3157133				210700
Ш	TONGUE BLANK					ļ		C3157134				210800
11	CLEVIS BLANK							C315 <b>7</b> 135				210900
Ц	TUBE							B3157136				211000
1 4	PIN CLEVIS							83157138				211100
1.4	PLATE MOUNTING ASSY					<del> </del>	ļ	U4700312				211200
Ш	PLATE MOUNTING							U4700308				211300
14	CONNECTOR MOUNT						<b> </b>	C 90088				211400
	BRACKET CONN ELEC					1		C4700313				211500
$\square$	BRACKET CONN ELEC				+	<del> </del>		C4700314				211600
L.i	BRACKET TANK FUEL				1			D4700315				211700
LA	CARTRIDGE OXIDIZER			· <del></del>	<del> </del>	ł		D4700326				211800
	O RING							D 90163				211900
Ш	O RING STANDARD				+	-		D 90568				212000
	UNION							C3134573				212100
H	SAUGE VISUAL PRESS				+	<del> </del> -		C3157547				212200
	PLATE BACKUP					-	1	C3157550				212300
LA	DIAPHRAGM BURST		1		11	L		<u> K3157558</u>	MA RI	1 4/0032	<u> </u>	212400

			CAL	IFORNIA INSTI	TUTE OF TECHN	IOLOGY, PASAC	ENA, CALIF.		DATE LISTED	-		
R	AWING LIST, OFFSE	т		MARINE	R 62		PA	GE - 51	4-12-63	_		
:	TITLE	ı	11	161	IV	٧	γI	VII	REL. FOR MISSILE BERIAL THRU. SER.	NEXT ABSEMBLY	0/#. COL.	SEQUENC
4	RESERVOIR OXIDIZER						•	D4700307	MA R	470034	9	2125
ļ	NUT				ļ			C 90250	MA R	470030	. 3	2126
l	SLEEVE FITTING	- 1		ĺ				C3157554	MA R	470030		
ŀ	TUBE RESERVOIR OXID				-	<del></del>	ļ	04700306	MA R	470030		2128
l	NUT				I	1	ļ	D 9025d		4700306		
ŀ	RESERVOIR GN2 IGNITA				<del></del>			C4700323	MA R	4700326	_	21.30
ĺ	O RING				1	1		C4700322 D 90163		4700323		2131
ŀ	CAP					<del> </del>			MA R	4700322		2132
l	O RING STANDARD	ļ			ĺ	1		D 90267	MA R	4700322 4700322		2133
t	NEEDLE				<u> </u>	·		C3134311		4700322		2135
1	CAP VALVE					ļ		D3157552	MA R	4700322		2136
t	CAP FILL							D3157553	MA R	4700322		
l	TUBE	1						C3157560	MA R	4700322		2138
r	CAP NEEDLE ASSY							C3157565	MA R	4700322		
ı	GASKET							B3157563	MA R	3157565		
t	CAP							C3157564		3157565		
l	VALVE EXPLOSIVE ASSY							D4700325	MA R	4700326		
t	O RING STANDARD							D 90568		4700325		
ł	BODY VALVE ASSEMBLY					j .		03137127	MA R	4700325		
Ī	O RING STANDARD					i		D 90568	MA R	3137127		
ı	PRIMER CHAMBER ASSY							D4700324	MA R	4700325		
Γ	FLANGE							C4700347	MA R	4700326		
	BLOCK PILLOW							D4700327	MA R	4700305		
	BRACKET	i						C4700328	MA R	4700305		
L	SPACER TUBE							84700329	MA R	4700305	8	2150
	BRACKET TUBE							C4700330	MAR	4700309	8	2151
L	SPIDER TANK NIIRO				ļ <u>.</u>			C4700332	MA R	4700304	1 7	2152
	SPIDER TANK NITROGEN							C3157119	MA R	4700332	8	2153
Ļ	STUD SLOTTED							B3177120	MA R	4700332	8	2154
	NITROGEN SYSTEM ASSY							J4700335	MA R	4700304	1	2155
L	O RING STANDARD				ļ			D 90568	MAR	4700335	8	2156
	WASHER							C3151800	MA R	4700335	8	2157
L	GAUGE VISUAL				<u> </u>	ļ		C3157539	MA R	4700335		2158
	REGULATOR PNEV PRESS							03157546	MA R	4700335		
L	XDUCER PRESSURE				<del> </del>			C3157548	MA R	4700335		
ı	RING FILTER BACKUP	j						C3157574	MA R	4700335		
H	VALVE 2WAY NITROGEN				h			C4700333	MA R	4700335		
	O RING STANDARD	i			1			D 90568	MA R	4700333	9	2163

٦.	RAWING LIST, OFFSI	: <b>T</b>		-	ITUTE OF TEC	N LABORA HNOLOGY, PASA		5E 62	4-12-63	7	
	TITLE		11	111	IV	•	٧ı	Att	REL. FOR MISSILE SERIAL THRU, SER.	NEXT OFF.	SEQUENCE
$\neg$	PRIMER CHAMBER ASSY					<u> </u>	1	04700324	MA R	4700333 9	21650
	FITTING NITROGEN TAK							D4700334			21660
- 1	O RING			l				D 90163		4700334 9	
_	CAP				1			D 90267			21680
1	O RING STANDARD				i	1	1	D 90568			21690
ᅾ	NEEDLE				1			C3134311			21700
7	CAP NEEDLE ASSY			ł	1	1		U3157562		4700334 9	
-	GASKET		ļ	ļ	ļ			C3157565 B3157563			21720
1	CAP				İ	i		C3157564		3157565 9 3157565 9	
-	SHELL TANK NITROGEN				-	_		D4700336			
١	FUEL SYSTEM ASSEMBLY		ļ		1		J4700321		MA R	4700304 7 4700303 6	21750 21760
+	O RING STANDARD				-		04/00321	D 90568		4700303 6	21770
٨	GAUGE VISUAL PRESSUR			İ				C3157540			
급	TRANSDUCER PRESSURE		<del> </del>					C3157549			
٦	TANK FUEL ASSEMBLY		1	•	1						
-	O RING STANDARD				<del> </del>		<del></del>	U4700320 D 90568			21800
٨	RING LOCK		1	}	1			C3157522			21810
7	BLADDER TANK FUEL			-	+	-	ļ	U4700319			21820
٨	BI ADDER				ł			U3157526		4700320 8 4700319 9	21830
7	MANIFOLD TANK FUEL			·	·	<del> </del>	<del> </del>	J4700318		4700319 9	
-	O RING				1		Ì	D 90163		4700319 9	
┥	CAP				<b>+</b>		<del>                                     </del>	D 90267		4700318 9	
١	O RING STANDARD				ĺ	ı	ļ.	D 90568		4700318 9	
┪	NEEDLE				+	<del></del>	<del> </del>	C3134311	MA R	4700318 9	
١	CAP NEEDLE ASSY				1			C3157565		4700318 9	
+	GASKET				1	+		B3157563			21910
١	CAP					į.	i	C3157564		3157565 9	
-†	BAFFLE				†		<del> </del>	C3157572	MA R	4700318 9	
- 1	BODY MANIFOLD TANK				1	ŀ	1	U4700317		4700318 9	
1	FITTING END				†		1	90164		4700317 9	
- 1	SHELL TANK PROPELLINE				1	1	l	04700339		4700320 8	
+	VALVE FUEL 2-WAY ASY				1		i	U4700338			21970
-[	O RING STANDARD				1			D 90568		4700338 8	
+	PLUG						<b>†</b>	K3134501	MA R	4700338 8	
	PLUG				1			C3157508		4700338 8	
A	BODY				<del>                                     </del>		<u> </u>	J3157544		4700338 8	
	PRIMER CHAMBER ASSY				1			D4700324	MA R	4700338 8	
+	SPACER REGULATOR				†		C4700337		MA R	4700303 6	
-	9W10 INTERCONN SUBAY					C4900236			MA R		22040
	7#10 THILKCOMM SUBMI			L	<del></del>	K-900236	<u>,                                     </u>		MA M		2 2 U 4 U

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TITLE	ı	н	101	IA	V	VI	A11	REL. FOR MISSILE SERIAL THRU, SER.	MEXT COL.	SEQUENC NUMBER
9W11 INTERCONN SUBAY 9W12 INTERCONN				l	C4900237 D4900238			MA R MA R	4700302 5 4700302 5	
CONTROL SYS ASSEMBLY RING SERVO MOUNT				D4700343	D3157810			MA R MA R	4700301 4 4700343 5	2208
INSULATOR SHEET SERVO ASSY				C4700213	83157811			MA R MA R	4700343 5 4700343 4	
SERVO SCREW SET					C3157812 B3157813			MA R MA R	4700213 5 4700213 5	
VANE MIDCOURSE PROPUL SYS				04700344	D4700188			MA R MA R	4700213 5 4700301 4	
SHIELD THRM LOW DISK SURFACE TREATSHANDLE				D4700346	A 90302			MA R MA R	4700301 4 4700346 5	2216
LINEAR SPRING DAMPER		15090						MA R	4100309 2	2220
1										
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JET PROPULSION	LABORATORY
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MARTINER R 62 GSE NUMERICAL PAGE 1 4-12-63

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_		PASH	14.		4	1	Y1.000		LL 100	*15*	EATE	DRAWING	i l	NEXT	7
3	DRAWING NO.	No.	1	TITLE	5	1	CODE	BEBIAL		D.Y. 1	•• 11	STATUS		ASSEMBLY	
_	1298	128	t	20A1-15 FLEXOWRITER	_	U	CCC	MR62	GSE	3.2		0			Г
F	600-066			DCS LOGIC DIAGRAM	ļ	U	CCC	MR62	GSE	32		0			
0	15004	165	-	CABLE 20A2 DVM	_	U	CSC	MR 6 2	GSE	32		-5			1
Ē	31186	A		MIG PLATE RADIOMETRO	1	ū	CSC	MR 62	GSE	32		0	1		1
Ā	189945			HASPESTAPLE PLATE	t	Ū	CSC	MR 62	GSE	32	<del>                                     </del>	5			Ť
В	311741	1	ĺ	BRKT-MIG CONTROL BOX	1	lō.	CSC	MR62	GSE	3.2	1	1 0	1 1		
8	311742		+	BRKT-MTG CONTROL BOX	1-	ŧΰ	CSC	MR62	+	32		1 0			†
U	311743	ĺ		COVER CONTROL BOX	ı	Ű		MR62		32		0	1		
D	311744		┼	ENCLOSURE CONT BOX	+-			MR62		32		0			Ť
Ē,	311820	l	1	FRAME SUPP RADIOMTRO		li.		MR62		32		1 0	1 1		ı
	311821	-	╀	LIFTING JACK	H	Ü	CSC	MR62		32	<del>  +</del>	5			1
č	311822	ĺ	1	BLOCK SWIVEL CLAMP	1	U		MR62		32		l ō			ı
_	311823		+	BLOCK SWIVEL CLAMP	╁	Hi		MR62		32	<del>  -   -</del>	<del> </del>			-
3	311824	i		LOCATING PIN		l.		MR62		32		l õ	]		
	311826	├	+-	SCREW SWIVEL CLAMP	+-	ŧΰ			GSE	132		1 0	lt		-
В	311827			SET SCREW SWIVEL		Ĭŭ		MR 62		32		1 5	1		
<u>B</u>			+-	SWIVEL CLAMP GUIDED	+-	쁩		MR62		132		i i i			-
Č	311828	l		SWIVEL CLAMP		Ĭ		MR 62		32	1 1	0			
č	311829	<b>└</b>	+-	FRAME PWR SUPPLY MTG	╁	ŭ		MR62		32	<del>  +-</del>	0			-
5	311830		İ		ı	1 -		MR62		32		! 6			
Ü	311831		+-	CHASS PWR SUPPLY MTG	+-	U		MR62		32	<del></del>	1 5	<del> </del>		-
E	311832	1		FRAME ASSY-COLUMN LOCK	ı	1.		MR62		32	1	) ŏ			
Ë	311833	—-	1	MOUNT OR 306 KLYSTRN	+-	15		MR62		32	<del>-</del> + -		<del> </del>		-
_	311834	1	1	MTG PLATE-SYSTEM #1	1	10		MR62		32		lŏ	1 1		
Ε	311836		+-	SUPPORT WAVE GUIDE	+-	10		MR62		132	++	<del>- 5</del>			-
Č	311838	1		MIG BRKT THERMISTOR	ı	ľu		MR62		32	1	lŏ			
Ç	311839	-	╀	MTG BRKT KLYSTRON	+	tö		MR62		32	+	1 0	1		-
Č	311840		1	MIG BRACKET-FREQUENC		10		MR 62		32	1	l ŏ			
Ç	311844	<b></b>	+-	MIG BRAT VARIABLE	+	44		MR62		32	++	<del>-   -                                  </del>	+		
В	311881	1			1	17		MR62		32		0			
8	311885	ļ	+	CAP-SPRING RETAINER	+	10		MR62		·		1 5	+		
8	311902	1		CLAMP		10				32		Ö			
В	311931	1	4-	SUPPORT PWR SUPPLY	$\perp$	10		MR62		<del></del>	+- +-		++		_
C	312179		1	SCHEM RADIOMETRIC		10		MR 62		32		0	1		
٥	312487	ļ	1_	SCOPE MOUNT	1	JU.		MR62		3.2		1 -2	+		
₹	312578		1	PLATE DEGREE INDICTR		1 -		MR62		3.		9			
3	312579	i	1	VERNIER DEG INDICATR	. 1	U	CSC	MRES	G5.2	1.5%	1 i	1 0			

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CALIFORN	IA INSTITUTE OF TECHN	OLOGY, PASADENA, CALIF.	
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P	AWING		ςŦ					2 658					PAGE	2	4-12-6	, 3
_		103	-			1 =	*14002	1111	31 721	9119.	# E : E :	32	ORAWING CONTROL		MEXT	7
	DRAWING NO.	BO.	ŧ :	TITLE	1	3	CD0#	. BERIEL	THEN 519.	PAV.	•	14.	STATUS		ASSEMBLY	
_	312582		1	ANTENNA VANE ADAPTER	П	U		MR 62		32	i	i	0		i	
	312583			DEGREE PLATE		U	CSC	MR62	GSE	32	\		0			
	312584		1-	MTG DEGREE PLATE		U		MR62		32		İ	0		1	
	312585		1	VERNIER DEGREE		U	CSC	MR62	SSE	32	Í.		0			_
	312617	_	+-	ADJUSTMENT SCREW		U	CSC	MR62	GSE	32			0			
,	312617	l		COVER ANTENNA	1	U	CSC	MR62	GS E	32	- 1	- 1	0			_
	312617	-	+-	WINDOW ANT COVER	1	U	CSC	MR62	GSE	32			0			
	312618			MTG ADJUST VERNIER		lu	csc	MR62	GSE	32			0			
3	312619		+-	MTG ADJUST VERNIER	T	lu	CSC	MR62	GSE	32			0			
	312620	ļ	l	CLAMP DEG MTG PLATE		Ιū	lcsc	MR62	GSE	32			0			
3	312621	t	$\dagger$	NUT ADJUSTMENT SCREW	Г	Ū		MR62		32		7	0		1	
,	312622	1		GUIDE DEGREE PLATE	1	Ιũ	csc	MR62	GSE	36			0		1	_
_	312639		+-	COVER KLYSTRON CONN	1	ΙŪ	CSC	MR62	GSE	32	1		0			
5	312646			TOOL BOX	1	Ū		MR62		32		- 1	0		1	_
Ś	312647		+-	TRAY TOOL BOX		ΙŪ	CSC	MR62	GSE	32			0		Ţ	
-	312685		1	COVER MTG PLATE #1	1	lu	CSC	MR62	GSE	32	1	i	0 1			
-	312686	├	+	COVER MTG PLATE #2	<del>†</del>	ΰ	CSC	MR62	GSE	32			0			
3	312776	1	1	PLATE HANDLE MTG	ı	lū	CSC	MR62	GSE	32			0		1	
5	312777	$\vdash$	+-	SUPPORT PEDESTAL	+	tū	CSC	MR62	GSE	32			0			
_	312788			BRACKET-LEVER ARM	1	Ιū	lese	MR62	GSE	32		- 1	0			
=	312878	╁	+-	SPACER PLATE SCOPE	✝	Ťū		MR62		132			U			
3	312924			SCREW COVER ANTENNA	!	Ĭ,		MR62		32		- 1	0			
3	312947		+	STOP COVER ANTENNA	†~	Ĭ		MR62		3.2	T - T		0			
3	312948			BOTTOM STOP COVER	ı	Ĭĭ		MR62		32	1	1	o l			
3	312940		+-	KNURL SCREW COVER	╁	tü		MR62		32	1		0			_
		1	1	TOP MTG BRKT COVER		10		MR62		132		1	ō		1	
3	312963 312965	+	-	SPACER COVER ANTENNA	+	Tü		MR62		32		†	0			_
3	312969	1		PLUGS-WAVE GUIDE	İ			MR62		32	:	1	5		1	
2	312995	<del> </del>	+-	PLATE FRAME MTG	+	ŭ		MR62		32	†-··•	†	3			_
	313000	1		RETAINER CRADLE		1,		MR62		32	1 1		5 .			
<u>4</u> 3		+		WRENCH ANTENNA	+	Tu		MR 62		32	1 - 1		Ď.			_
<b>-</b>	313007			WRENCH ANTENNA	ŀ			111102	032	1	-					_
-	105201			CONNECTOR ADAPTER		U		MR 6 2		34			J			
	105202		1	WRENCH PRESSURE SW		Įυ	1 -	MR62		4 '	11		J		1	
	105226		_В	SENSORGVALVES	$\perp$	Įυ	JPL	<del></del>			11		<u> </u>			_
_	105228	T	D	SENSORGVALVE PANEL		U					12		2	ĺ		
	105229		-le	M/C PANEL 'N WIRE	1	Ιu	JPL	MR62	1350	34	01	6.2			JPL 0513 JL	_

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	AWING		٠.	CALIFORNIA IN	STIT		OF TEC	HNOLOG	BORA r, pasad E. Numë	ENA,			PAGE	3	4-12-6	
·	DRAWING NO.	#15# #2.	3 :	TITLE	d d		V4 * 101	<b>PA/0</b>	15E 70E	erse.		1111	DRAWING CONTROL		NEXT ASSEMBLY	=
-	105231		B	ATT CONT GYRO PANEL	⊬	ΙŪ	JPL	MR62	GSE	134	0.2	-	STATUS			_
1	105237		t -	GYRO MONITOR PHA	1	lu.	JPL	MR62	GSE	34	12	62	J		i	
-	105238		T	GYRO MONITORGANT PNL	╁	tü	JPI		GSE	34	12	62	<del></del>			-
	105239		l"	MANEUVR MONITOR PAL	1	Ιυ	JPL	MR62		34	10	62	J			
1	105240		-	MANEUVR MONITOR PNE	⊢	Hü.	JPL		GSE	34	<u>-</u>	62	J			_
ł	105241		la	MANEUVR MONITOR PNL		lu.	JPL				10	1 1	- 1		1	
4	105282		0		-	1 -			GSE	34		62	J			
ı	105283		1	A/C SYS TEST CONSOLE	ì	U	JPL		GSE	34	12	62	J			
4				A/C SYS TEST CONSOLE	_	Ü			GSE	34		62	J			
١	105288		١.	CB768 MANEUVER MONTR	1	U			GSE	34		62	J			
_	105289		Α	CB#6 MANEUVER MONITR	Ļ	U	1		GSE	34		62	J ·			
١	105296			CB3 MANELVER MONITOR		U	JPL		GSE	34	02	1	_J ]			
	106314			PRESSURE SW ADAPTER		U	-		6SE	34	11	61	J			
I	106462			MOD ANTENNA PANEL	I	U	JPL	MR 6 2	GSE	33	11	61	J			
ı	106466		Α	SKETCH SCHEM	,	U	JPL	MR62	GSE	33	12	61	J			
1	106469		A	COMMUNICATIONS	1	U	JPL	MR62	GSE	33	12	61	J			
١	106471		Α	TEST CABLE #2	1	U	JPL	MR62	GSE	33	12	61	ار			
1	106472		IA.	TEST CABLE #1	+	Ū			GSE	33		61	<u>.</u>			•
ı	106489			GSE CABLING		Ü			GSE	33	loi	1	J			
+	106902		H	A/C TEST BOX	╁╌	Ŭ		MR62		34	02	1 1	<del>-</del> j		-	
Į	106903			A/C TEST BOX DETAIL		Ü			GSE	34	, -	62	-		1	
1	108489		Н	SCHEM ADAPTER RACK	+-	tŭ-				33	7 -				<del></del>	•
I	113350				1	lŭ.			GSE		) -	62	J			
4			<u> </u>	HOLDER SUN SENSOR	┞-	Ļ		MR62		34		60	٠			
1	113351			SHIELD TEST SUN SENS	1	U			GSE	34	01	61	J			
1	113352			INSERT TEST SHIELD	_	U		MR62		34		60	J			
1	113353			PLATE TEST SHIELD	i	U		MR62	GSE	34	10	60	ا د			
Ì	113354			SUPPORT LAMP TEST	L.	U			GSE			60	J		. 1	
1	113355			SUPPORT LAMP SENSOR		U	JPL	MR62	GSE	34	10	60	J			
1	113730			HOLDER SUN SENSOR		U	JPL	MR62	ن\$ <b>E</b>	34	04	61	J			
Ī	113731		А	SHIELD TEST SUN SENS	Γ	U	JPL	MR62	GSE	34	04	61	j			•
1	118285			CABLE 20A4-3 GENERTR		U	JPL	MR62	GSE	32	0.3	62	ا ر			
1	118286			RADIOMETER SCAN TEST	İΤ	Ú	JPL	MR62	GSE	32			J			٠
	118292			WLMAGNETOMETER EXP		Ü	JPL	MR62	GSE	32	-	-	ō l		1	
t	118293			WE CLOCK TO DCS	1	Ū.		MR62		32	$\vdash$	1	0		1	-
Ì	118294			WL IC PF RADGED EXP	1	ŭ	JPL		65E	32			ŏ		1	
t	118295		$\vdash$	CABLE 20A4-F	<del> </del>	IJ	JPL	M362			0.2	163	J		<del>-i</del>	
ı	118296			CABLE 2044 ABCD MED		u	JPL.		GSE				-		1	
+	118297		$\vdash$ $\vdash$	CABLE 2044 ABCD MED	<b>⊢</b> −	L.~					02		<u>J</u>		+	_
١					1	U	JPL	MR 6 2	GSE ,	32	0.2	02	J.			
1	118357		ļļ	20A0-10 MODIFY CSC	١.,	U	JPL	MR62	GSE .	32		ļ ļ	0			
1	118359			WL POWER SUPPLIES	1	U	JP L	M565	GSE	32		1	0			
1	118360			WE COMMERCIAL INST		15	JPL	M362	iiSE	3.2		: 1	0 1		ŀ	

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, F	RAWING	L I	s t	MAG				FZ GSI					₽:05	4	4-12-6	3
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7	DRAWING NO.	NO.	4 5	TITLE	5	1	¢:06	\$13/64	7 HRU SER.	DIV.		11.	STATUS	1	ASSEMBLY	ł
7	118507		Г	CLOCK CABLE SCIENCE		Ú	JPI	MR 62	GSE	32	11	61	J			1
,	118508		Α	CLOCKGIC COUNTER		Ų	JPE	MR 62	GSE	32	02	62	ن	1		
,	118550		D	GSE TO EXPERIMENTS		U	JP L	MR 52	GSE	3.2	02	62	J	1		_
)	118551		1	CABLING 20A21620A22	l	U	JPL	MRE2	GSE	32	11	61	J	1	1	
ز	118552		T	20A23 20A24 20A25 C	-	Ų.	JPL	MR62	ÚSE	32	11	61	J			_
ٔ ز	118553		C	20A24 TO 20A6-P1	!	U	JPL	MR62	GSE	3.2	12	61	ز	1		
5	118554		Α	20A22 TO 20A6 P2		U	JPL	MR62	GSE	32	12	61	J			
٠.	118555		A	20A21 TO 20A6 P3		U.	JPL	MR 62	GSE	32		61	J	İ		
)	118556		A	20A6 P4 TO 20AC P1	Г	Ū	JPL	MR62	GSE	32		61	<del></del> j		t	•
١ (	118557		Α	20A6 P5 TO 20A0 P2	1	Ū	JPL	MR62	GSE		12		J			
;	118559		T	20AC-3 MECHANICAL LO	_	Ü	JPL	MR62	GSE	32	01	62	 U	†~ <del>~~</del>		
,	118560		A	20A0-4 MECHNICAL LO		Ū	JPI	MR52			03		.i			
3	118561			20A0-5 MECHANICAL LO	Т	Ű		MR62			01		J			
	118562			CLOCK PULSE GENERATE		Ū		MR62			oi		Ĭ		1	
,	118563		$\vdash$	SCHEM DIGITAL SCAN		Ŭ.		MR62			01		<del></del>	-		
	118564			SCHEM 11 VOLT				MR62			oi		Ĵ			
,	118566			20A1-2 MECHAN LO	$\vdash$	11		MR62			0.5		J	<del>                                     </del>		_
-	118567		1	20A0-2 MECHANICAL LO		Ü.	JPL	MR62	1	32	رر	102	0			
j	118568			SCHEM S/C PWR CONTRI		-					-	1.			ļ	
5	118569					V		MR62			01		J		1	
5	118570		^	SCHEMATIC SOL PLASMA SCHEM SWITCH SUBASSY	-	U	JPL	MR62		32			<u>.</u>			_
,	118573				i.	U		MR62			01		J		118840	i
5			1	20A0-2 SCHEM PWR SW	ļ			MR62			0.5					į
- 1	118575		l	MED COUNTERS	1			MR 6.2			01		J			
_ 1	118719			20A23 TO 20A6 P6	L	_		MR62			01		ا			
7	118725		C	INTERCONN HARNESS		U		MR62			01		J			ı
2	118728			20A6 MECHANICAL LO		J		MR62			Q1	62	J			
2	118729		il	GSE ISOLATION BOX		U	JPL	MR62		32		1	٥	i		ı
2	118730			CABLE CLOCK DCS		U		MR62			04		J			
1	118769			20A6P1 FLOW SHEET		U	JPL	MR62			12	61	J			ı
\	118770		Ш	20A6-P2 FLOW SHEET		U	JPL	MR62	GSE	32	12	61	J			
١,	118771			20A6 P3 FLOW SHEET		U	JPL	MR62	GSE	32	12	61	J			1
Ц	118772		-	20A6 P6 FLOW SHEET		U	JPL	MR62	GSE	32	12	61			L	j
١,	118773		l	20A6 P4 FLOW SHEET		Ų	JPL	MR 62	GSE	32	12	61	J			1
	118774		$\Box$	20A6 P5 FLOW SHEET		U	JPL	MR62	GSE	32	12	61	J.	1		
	118775			20A6 P7 FLOW SHEET		Ū	JPL	MR62	GSE	32	12	61	Ĵ.			1
}	118780		В	20A6 ISOLATN SCHEM		ij	JPL.	MR62	GSE	32			Ū	[ i		
-	118781		Ā	20A6 CKT BD1		Ų	JPL.	MR62	35E		0.3		7	1		1
:	118782		8	20A6 CB2		U	JPL	MR62				62	J			ļ
J	118786		c	20A0-12 SCHEMATIC		ut		MR 5.2		32				1		٠
1	118787			CABLING THPU 2045				MR 6.2		32			.1	!		ł

				JET PR	STAT	HTE	OF TEC	HNOLOG	PASAN	ENA 1	TALLE				DATE LISTE
R	AWING	LI	s T	AAM				2 65					1 -115	5	4-12-6
	DRAWING NO.	9+EH HO.	35	TITLE	3 2	1173	VE4801 C: DE		56 PCA F 1784	84 · F	98.5		PAWING LUN'ROL STATUS		NEXT ASSEMBLY
+	118823		A-	20A1-2 WIRING OGM	$\vdash$	Ü	JPL	MR 5 2	GSE.	32	0.5	621	· ,		†
١	118824		A	20AC-2 WIRING DGM		Ų	JPL	MR 6 Z	GSE	3.2	505	62	J		
1	118825		A	20A0-3 WIRING DGM	Т	Ü	JEL	M462	65 E	3.	05	62	1 1		
ļ	118826		A	20A0-5 WIRING DGM	ŀ	ن	JPL	MR62	USE	22	0.5	62	١		
1	118830		1	20A1-12 SCHEM PWR		U	JPL	MR62	35E	32	01	52	J		1
1	118831			SCHEM PWR SUPPLY	1	U	JPL	MR62	GSE	32	01	62	J		
1	118835		$\vdash$	SUBCHASSIS SW SUBASY	1	Ū	JPL	MR62	GSE	32	011	52	J		113840
ł	118836			SUBCHASS CUR INJECT	1	U	JPL	MR 62	GSE	32	01	62	j		118842
1	118837		<del>                                     </del>	COVER CURRENT INJECT	T	U	JPL	MR 62	GSE	32	01:	62	3		118842
	118838			GASKET CUR INJECTION		U	JPL	MR62	GSE	3.2	01	62	ا ز		118842
1	118839		1	BRACKET SW SUBASSY		IJ	JPL	MR 62	GSE	3.2	01	62	j		118840
1	118840		1	SWITCH SUBASSY		U	JPL	MR62	GSE	3,	01	62	ا ر		118842
1	118841		†	PROBE ASSY	Т	U	JPL	MR 62	GSE	32	01	62	J		118842
	118842			CURRENT INJECTION		U	JPL	MR62	USE	36	01	62	j		
	118843			RETAINER		U	JPL	MR62	65E	32	01	62	J		118842
	118884			SKETCH PATCH PNL LO		U	JPi	MR 62	G 5 &	132	07	£2	J		
1	118885		A	BRACKET		IJ	JPL	MR62	GS E	37	09	62	J		T
	118887			ZCAO 59 CABLE	1	U	JPL	MR62	SSE	32	01	62			
	118888		T	20A1-60 FLEXOWRITER	T	Ū	JPL	MR62	GSE	32	01	62 1	ن		
į	118893		A	20A1-5 WIRING DGM		U	JPL	MR62	GSE	3,2	05	62	J		
	118894		A	20A0-16 20A1-16 CBLE	Т	U	JPL	MR 6.2	GSE	3.2	05	62	J	•	
	118895			DCS ANALGG VOLTAGE		U	JPL	MR 62	C.S.E	32	Q5	62	J		
Ī	118896		A	20A1-C1 CABLE	Т	U	JPL	MR 62	GSE	3.2	102		J		1
	118897		A	20A1-C2 CABLE	l	U	JPL	MR62	GSE	32	102	62	J		
-	118898		1	20A1 C3 CABLE	1	U	JPL	MR62	GSE	32	1021	62	j		
	118899			20A1 C4 CABLE	ı	U	JPL	MR62	65E	3.2	01	52	Ų.		
-	118900		+	20A1 C5 CABLE	Т	U	JPL	MR62	GSE	36	152	621	J		
	118901			20A1 C6 CABLE	1	U	JPL	MR62	65E	32	01	02	J		1
	118902			20A1 C7 CABLE	T	U	JPL	MR 6 2	55 E	132	02	52,	J		
	118903			20A0 CI CABLE	1_	U	JPL	MR 62	65£	32	102	52			
_	118904		Α	20A0 C2 CABLE	Т	U	JPL	MR62	GSE	32	02	62	J		
	118905	ļ	ļ	20A0 C3 CABLE	L	U	JPL	MR62	GSL	32		62	J		
	118906			20A0 C4 CABLE		Ü	JPL	MR62	GSE	3.2	101	62	J :		
	118907			20AC CS PLUG B CABLE	1_	U	JPL	MR 62	GSE			62	J		
	118908	T	A	20AC CE PLUG E CABLE	Т	U	JPL	MR62		3.2	0.3	62	ل		
	118909			20AD CE PLUG A CABLE	L	Įυ,	JPL	MR62	65E	32	0 = 1	52	ن		1
_	118910	T	T	2040 C6 PLUG D CABLE		ĪŪ	JPL	MR62	SSE	32	0.0	t.	2		1
	118911	1	1	20A1 CB CABLE	1	U	JPL	MR62	GŞE	3.2	03	٤. ا			<u>.</u>
	118912		T	2041-CF CABLE		i		MR 52		10					İ
	118913	1	lΔ	2041 (10 CABLE	1	1.:	IPI	MRODE	1635	100	1. 31	1			

	JET PROPULSION LABORATORY			
	CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.			DATE LISTED
	MARINER R 62 63E NOMERT AL	ي والمات	6	4-12 65
DRAWING LIST				

	DRAWING NO.	8454	4 -:	TITLE	1.	947.5	V1+008		151 FG4	F4.1P		175E	ERAWING CONTROL	NEXT ASSEMBLY	Ţ
Ξ	DRAWING NO.	NO.	\$ 5		3	3	C00#	BERIAL	7 HPG 188.	av.	wc.	110	STATUS	ASSEMBLY	1
5	118915		1	SCHEM SOL PLASMA	Γ	U	JPL	MR62	9.5	3.7		62			
	118925		C	ocs	L	U	JPL	MR62	655	3.2	0.5	62			4
	118954			WE FOWER JW EXP	1	U	JPL		GSE	32		1 1	J		
	118955			WE SOLAR PLASMA EXP	L	U	JPL	MR62	GSE	32		1	5		1
	118962			20A0-15 MECHAN CONN	1	U	JPL	MR 6 2	GSE		0.2	6.	J		
:	118963		l	20A1-14 MECHAN CONN		IJ	JPL	MR62	65t	32		6.2	J		⅃.
Ī	118964		A	2041-7 VISICORDER	П	U	JPL	MR 6.2	0.5 E	3.2	0.5	6.	V		
)	118965			SCIENTIFIC RACK LO		U	JPL	MR 6.2	53E	32	02	162	J		1
)	118966			CABLE 2083-4		J	JPL	MR 62	GSE	32	0.3		J		i
	118967		l	CABLE 20A3-1 MAGNET		U	JPL	MR62	GSL	32	03	6.	J		⅃.
Ξ	118968			CABLE 2043-4 PWR CON		U	JPL	MR 62		3.2	0.3	tz	-		i
-	118998		C	20A1-13 WIRE LIST TB	<u> </u>	U	JPL	MR 62	úS€.		103	62	J		1
j	119200		Г	GSE BLOCK DGM	Ī	U	JPL	MR62		33	1		0		Ì
J	119449		l	FEED THRU PLATE PWR	ļ	U	JPL	MR 62	GSE	35		1 1	0		1
J	119450		1	FEED THRU PLATE SIGN	Γ	U	JPL	MR 62	G5t.	35	T	T	0		
3	121040		ļ	SCHEM 100TF BINARY		U	JPL	MR62		32	_		2		┙
5	121306	-		20A0-9 WIRING DGM	Τ	U	JPL	MR62	GSE	32	0.3	62	T U		T
)	121307	l		20A0-9 BACK PNL SDT	1	U	JPL	MR 62	SSE	32	03	102	J		į
Г	121321		1	CSC 2.4 KC PWR SUPP	1	Ü	JPL	MR62	USE	32	04	62	J		7
j	121321	1		20A0-10 CSC 2400 CPS	1	U	JPL	MR62	GSE	32	04	62	J		1
-	121352		В	20A1-3 WIRING SYS	Т	Ü	JPL	MR62	GSE	32	05	62	J		1
3	121795			SCHEM 100TF LAMP	1	U	JPL	MR62	GSE	32		1	0		1
3	121796		1	SCHEM 1001F6105T	t-	Ū	JPL	MR62	GSE	32	:	1	0		T
,	3261002		lc	HANDLING FIXTURE		Ιù	JPL	MR62	GSE	38	10	61	J		1
5	3349050		Ā	TEST LIGHT ASSY	T	Ũ	JPL	MR 5 2	GSE	34	112	162	J		T
	3349051		A	11771.7	ı	ŭ	JPL	MR62	1	34	12	62		1	1
-	3349052		+~	BASE TEST LIGHT ASSY	+	ŭ	JPL	MR62		34	08	0.0			7
	3349053			BODY LAMP TEST LIGHT	ı	Ü	JPL	MR62		34		60	j		
-	3349055		+	CONTACT TEST LIGHT	†	ΙŪ	JPL	MR62		134	0.8	160	J 1		7
	3349056			INSULATOR TEST LIGHT	ı	Ū	JPL	MR62		34		60	<u> </u>		
3	3349057	<b></b> -	1	RETAINER TEST LIGHT	†	Ιŭ	JPL	MR62		34	0.5	160	3		7
-	3349058			THUMBSCREW TEST LITE		ľ	JPL	MR 62		34		160	Ĵ		İ
<u>,</u>	3349059		+-	GASKET TEST LIGHT	1-	Ιŭ	JPL	MR62		+	00				7
	3349060		İ	GASKET INNER TEST	1	lu	JPL	MR62				60	J		1
ì	3349061		+	GASKET OUTER TEST	+-	Ťů	JPL	MR62			0.5	0.0	j		-
3	3349062			CLAMP BAR TEST LITE	1	Ιŭ	JPL	MR62		34	1	1	ő I		ŀ
	3349063		+ -	TEST LIGHT ASSY	+-	tü	JPL	MR 6 2	955		iñΑ	15.5	· . j		-†
-	3349064		Ι.	BASE TEST LITE ASSY		Ŭ	JPL	MR62	GSE		li2	152			
=	4800353		+~	SCHEMATIC CH SQUIB	+-	10	13FE	MR62			111	1	- 5 <del></del> 1	8200014	- !
		1	1		-	U	JPL	MRE	65.	13.	la.	1	- · · ·	3200014	1
<u>/</u>	8900465		1	CABLE AS: INTERNAL	1	ıυ	JUPL	Law C	199.		13.			JPL 0513 JUF	_

				JET PR											DATE LISTE	0
				CALIFORNIA IN				:HNOLOGY E-2 GSt					0.52.2	7		
F	RAWING	LI	S T	. mai	4 1 1	N C P	< r	52 GSt	: NUM:	: K J (	. AL		PAGE	,	4-12-6	.*
=	DRAWING NO.	B+5H	4 5	TITLE	1	1173	75 8004		11 101	4014.		LASE	DRAWING		NEXT	Т
-		80,	1		1	3	CORE	St set	THE 111.	#··T.		1.	CONTROL STATUS		NEXT ASSEMBLY	
,	8200001		В			b	JPL	MR62	GSE	35		62	ن		8200050	ï
)	8200014		В	CB ASSY SQUIB CUR	<u>_</u>	U	JPL	MR62	GSE	35		62	J		8200035	ĺ
	8200019		١.	PYRO MONITOR B	1	U	JPL	MR62	GSE.	35	0.2	62			8200050	Ī
_	3200020		I A	PANEL	┖	U	JPL	MR62	G5E	35	01	63	V		8200019	I
1	8200021	İ	1.	CHASSIS ASSY	1	IJ	JPL		GSE	35	0.2	62	J		8200035	I
3	8200022			PLATE FUNCTION	L.	U	JPL	MR62	GSE	35		63	J	_	8200019	
	8200023			PLATE FUNCTION		lo.			GSE	35	01	63	J		8200019	Ī
	8200023			PLATE FUNCTION	┖	U	JPL	MR62	GSE	35	01	63	_ J		8200035	ļ
	8200024			PLATE FUNCTION		IJ	JPL	MR62	G5E	35		62	)		3200035	1
	8200024		Α	PLATE FUNCTION	L	U	JPL		GSE	35		62	ز		4200035	l
	8200025	l		PLATE FUNCTION		U	JPL	MR62	GSE	35	01	63	ز		8230019	Ī
_ 1	8200025			PLATE FUNCTION	L	U	JPL		GSE.	35	01	63	J		0200035	
	8200026	i		PLATE FUNCTION		U	JPL	MR62	GSE	35	01	63	٠		8200019	1
	8200026			PLATE FUNCTION		U i	JPL	MR62	GSE	35	01	63	J I		8200035	
	8200027			PYRO MONITOR SCHEM	Ī	IJ	JPL	MR62	GSE	35	03	62			8200035	٠
	8200028		A	BRACKET CHASSIS MTG		U	JPL	MR62	GSE	35	01	63	J		8200035	
	8200028		Α	BRACKET		U	JPL	MR62	ĞSE	35	01	63	J		8200019	
	8200029		1	CB1 PYRO MONITOR	l	lυ	JPL	MR62	GSE	35	0.2	62	ا ر		8200035	
1	8200030		1	CB2 PYRO MONITOR	Т	U	JPL	MR62	GSE	35		62	<del>-</del>		8200035	
ı	8200031		A !	SUPPORT		ΙuΙ	JPL	MR62	GSE	35		63	J I		8200035	
1	8200031		A	SUPPORT		U	JPL	MR62	GSE	35		63	<u>5</u>		8200019	
ı	8200032		A	RETAINER		υ	JPL	MR62	GSE	35		63	- J - 1		8200035	
1	8200032		Α	RETAINER		U	JPL	MR62	GSE		c 1	63	<del>-</del>		8200019	
ı	8200033		A	SUPPORT SWITCH		Ū	JPL		GSE		01	63	ŭ l		8200035	
1	8200033		A	SUPPORT SWITCH	<del> </del>	Ū	JPL	MR62	GSE	35	01	63	J		8200502	
ı	8200034		A	RESISTOR ASSY	ļ	υ	JPL	MR62	GSE		01	63	J		8200035	
1	8200034		Α	RESISTOR ASSEMBLY	-	Ū	JPL	MR62	GSE		01	63	<del>  </del>	<del> </del>	8200502	•
ı	8200035	,	!	PYROTECHNIC MON ASSY		υi	JPL	MR62		35	0.2	62	ا ٽ		8200050	
1	8200037		A	JUNCTION PANEL	-	Ŭ.	JPL		GSE		01	63	J		8200050	
	8200050		1., 1	PYRO MONITOR CONSOLE	l	ŭ	JPL		GSE	1	06	62	ا ر		0200000	
+	8200067		Α	CONNECTOR INTERFACE	╌	Ŭ	JPL	MR62			n1	63	<del></del>		8200050	1
ł	8200100		A	ANGLE SHELF SUPPORT		ŭ	JPL	MR62			01	63				į
	8200101		1 - 1	DRAWER SHELF	-	ŭ	JPL		GSE	35	01 01	63	<u> </u>		6200050	
	8200102			SUPPORT		ŭ	JPL	MR62		35		63	ار		8200050	
	8200112			PCA RESET MONITOR	-	J	JPL		GSE						8200010	i
	8200197			PAD SHIPPING CASE		ŭ	JPL		GSE .		01	63	J		H200050	ĺ
	8200198			COVER SHIPPING CASE		U	JPL					62	J		8200199	ļ
	8200198			SHIPPING CASE A/C		- 1	JPL.		65E		09	62	J		8200199	I
	8200209				-	Ų			65E		0.9	62				ļ
	8200209			BOOSTER NITROGEN		U	PL		GSE			62	- 2			ĺ
1	0700511		1 !	MOCK UP FORM A.C.		UI	JPL	MR 6.2	65E	341	09	6, 1	, ,		1	1

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IFORNIA INSTITUTE OF TECHN	OLOGY, PASADENA, CALIF.		DATE LISTED
MARINER R 62	GSE NUMERICAL	FAGE 8	4 = 1.2 + 6 ;

	DRAWING NO.	945H 80.	\$ ±	TITLE	1	5770	******	MAJO MAJO	111 / 11 1 11   H	PESP.		1154	CONTROL		NEXT ASSEMBLY
7	8200215		-	TOOL TUBE CUITTER ASY	-	U	JPL.	MR 6 2	GSE	34	0.9	5.2	STATUS	1	8200215
	8200216			KIT TUBE CUTTER ASY		li.	JPU	MR 6.2	USE	34	0.9		J	1	10200012
	8200308		1	BLOCKHOUSE CHASS WIR	┢	۱ŭ	JPI		65 E	34	<u>u</u>	104	0		<b>+</b>
	8200374	SP	}	BLOCKHOUSE ASY		Ĭŭ	JP!		GSE	34			0		
-	8200375	<u> </u>		BLOCKHOUSE ASY WIRE	-	Ť	j P L	MR62	SE	34			0	<del> </del>	-
	8200519			PRINTED CIRCUITRY		lu.	PL	MR62		35	1		0	1	8200516
	8700005			FIXTURE HANDLE MCPU	-	Ĭŭ	JPL	_	GSE	3.8	11	61			10200010
	8700031			FUEL TILL ASSY	ļ	l.	JPL		GSE	34	110	61	Ų		324 2002
	8 70 00 34		Δ	TEST FIXTURE	H	ŭ	JPL		GS E	34	02	62	<del></del>	-	3261002
	8700041			FUEL TANK LEAK 'ES!		Ľ		MR62		34		62			1
	8700043			WRENCH ASSY	-	ŭ			GSE	34	_	62	J		<del> </del>
	8700044			DIAPHPAGM LEAK TEST	ĺ	ii.	JPE		GSE	38	08		J	1	
	8700076			CORE PATTERN CURING	-	ΙŬ	JPL		GSE	38	00.	102	ő	<del> </del>	<del> </del>
	8700077			BLADDER TEST MANIFLD		ľ		MR62		38			C C		
	3700078		$\vdash$	HANDLING FIXTURE	-	IJ	JPL			34	-	$\vdash$	-3	-	
	8800036		ll	20A0-12 MECHAN TRACK		1 -			USE		•				
	8800038		-	20A0-14 MECHAN INSUL	-	U		MR 62		3.2	0.2	-	<u>J</u>	<b></b>	ļ
	8800039			20A0-14 MECHAN INSUL	1	1 ~			SSE	3.2		62	3		
	8800040	-	$\vdash$	20A0-12 WIRING BD1	⊢	U		MR 6 2				62	<u> </u>	·	<b>!</b>
	8800040	٥.		20A0-12 WIRING BD:		U			GSE	32 32		62	3	1	
	8800041	P L	A		-	ļŲ.			GSE		02	62	<del></del>	1	
- 1	8800041		^	20A0-12 WIRING BD2	i	19		MR 62				62	2		j
	8800042	P <u>L</u>	-	20A0-12 BD2	-	14			GSE		22	0 5	<u> </u>	<del></del>	
		D.		20A0-12 WIRING BD3		U		MR62		32		62	J	1	
-4	8800042	P.L.		20A0-12 BD3	_	U			GSE		0.2		J	L	<u> </u>
	8800043			20A0-12 WIRING BD4		U			CSE	32		62	J	i	
	8800043	PL	$\vdash$	20A0-12 BD4		U		MR62		3.2	0.2		J	ļ	
	8800044			20A0-12 WIRING BD5		V.			GSE		02		ز	ì	
	8800044	r L	$\vdash$	20A0-12 BD5		U		MR62			02				<del></del>
	8800045			20A0-12 MECHANCL LO		U.		MR62			02		J		
-+	8800046		$\vdash$	20A0-12 MECHAN COVER	_	ĮU.	JPL		GSE	32	0.2			ļ	
1	8800047			20A0-14 MECHAN HEAT		U	JPL		SSE		02	62	J	1	
	8800057			TIY/FLEX CONVERSION	_	ш	JPL		GSE	32		62		ļ	<u> </u>
	8800059			20A1-15 SCHEM RELAY		U		MR62		3.2		62	J		
	8800060			20A1-15 MECHAN BRKT	_	IJ			GSE			62	J		
	8800061			TIY CONVERSN TERMNAL		U			GSE	32	02	62	J		İ
	8800062			TTY CONVERS CIR DGM	_	U			65 E.		0.2		J	<u> </u>	<u> </u>
	8800063			20A1-9A SPECIAL MOD		U		MR62		32		62	2		1
	8800070			BASIC SUB-FRAME		U		MR 62		32		62		1	
ı	10800085		l 1	20A0-12 WIRING BD2		ш	JPL	MR 62	SCF	32	20	62			

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RAWING	: 11	SТ	MAR					NUME				PAGE	9	4-12-6	3
DRAWING NO.	\$41.0 Wo.	11	TITLE	ź	100	YEN004 COOL		116 FOR 8 1784 THEN 35F	***	PO.		DRAWING CONTROL STATUS		HEXT ASSEMBLY	Ţ
8800083	-	Н	20A0-4 ASSY CYCLIC		U	JPL	MR62	GSE	32	0.3		J	-	1	+
8800084		В	20A0-4 SCHEMATIC		ŭ	JPL	MR 62	GSE		05	62	J		İ	
8800085	<del> </del>	Ā	20A0-4 CB CYCLIC CAL	1	U	JPL	MR62	GSE	32	03	62		·		T
8800094	1		SCHEM RADJOMTE MOTOR		U	JPL	MR62	GSE	32	031	62	j			
8800095	t	$\vdash$	RADIOMETER BLOCK DGM	Т	Ū	JPL	MR62	GSE	32	0.3	62	J			T
8800096	1	1	LO FRONT PANE RADMIR		U	JPL	MR62	GSE	32	03	62	J		ļ	
8800097	<del> </del>	A	INPUT ONE SHOT CIRCT	Т	U	JPL	MR62	GSE	32	04	62				T
8800098	1	A	INPUT ONE SHOT SCHEM		lυ	JPL	MR62	GSE	3.2	04	62	J		1	-
F800099	<del> </del>	1	LOGIC DGM DIGITAL	1	U	JPL	MR62	GSE	32	03	62	J			T
8800101	1		CONNECTOR PANEL	ı	U	JPL	MR62	GŞE	32	05	62	j		ļ	1
8800102	1	A	PANEL A MODIFIED	1	U	JPL	MR62	GSE	32	05	62	J			Т
8800103	1	•	PANEL B MODIFIED	ı	U	JPL	MR62	G5E	32	05	62	J		1	J
8800104		1	PANEL C MODIFIED	$\top$	Ų	JPL	MR62	GSE	32	0.5	62	J	Ī ' '		T
8800105	1	1	INTERPANEL MODIFIED		lυ	JPL	MR62	GSE	32	05	52	J			- 1
8800106	<del> </del>	1	20A1-3 MECHAN SYS SW	Т	U	JPL	MR62	GSE	32	03	62	J			Т
8800107	1		20A1-5 MECHAN LO	1	Ιu	JPL	MR62	GSE	32	03	62	J		1	- 1
8800108	1 -	╆	20A0-9 FRONT PNL SDT	t	U	JPL	MR62	GSE	32	03	52	J		1	٦
8800109	1	Α	20A0-4 WIRING DGM	1	lυ	JPL	MR62	GSE	32	05	62	ل		1	- 1
8800111	<del> </del>	+-	20A1-9 MODULE SCHEM	1-	Ū	JPL	MR 62	GSE	32	04	62	<del></del>		1	7
8800112	1	1	DEC 4111	1	lυ	JPL	MR62	GSE	32	04	62	J		i	1
8800113	1	+-	DEC 4301	1	Ū	JPL	MR62	GSE	32	04	62	-j			T
8800114	1	1	DEC 4113	1	Ιŭ	JPL	MR62				62	Ĵ			
8800115	<del> </del>	+-	DEC 4215	1-	ŭ	JPL	MR62	GSE	32	04	62	J			٦
8800116	1	1	DEC 4213	1	lii	JPL	MR62	GSE	32		62	ت			
8800117	t -	+-	DFC 1682	✝	Ŭ	JPL	MR62	GSE	32	0.5	62				٦
8800118	į	1	DEC 4410	ŀ	lu.	JPL	MR62	GSE	32	0.5	62	Ĵ		1	1
8800119	<del> </del>	+	DEC 4209	†	ΙŪ	JPL	MR62	GSE	32	0.5	62	J		<del> </del>	7
8800126	1	1	20A1-13 SUBASSY TB		U	JPL	MR62	GSE	32	104	62	j		i	-
8800129	<b>†</b>	+	SCHEM 20A25 XFORMER	$\top$	ΙŪ	JPL	MR62	GSE	32	04	62	J		1	٦
8800134			INTERNAL OSCIL SCHEM		ΙŪ	JPL	MR62	GSE	3.2	05	62	J	1		-
8800135		+-	INTERNAL OSCIL CIRCT	1	lu	JPL	MR62	GSE	32	05	62	J		1	7
8800136	1		20A1-9A WIR DGM	1	Ιũ	JPL	MR62	GSE	32		62	J			
8800137	†	+-	MODIFIED FRONT PNL	T	Ù	JPL	MR62	GSE	32	0.5	62	J			٦
8800156	1	A	MODIFIED SDT READOUT		ĺΰ	JPL	MR62	GSE	32	0.5	62	J		1	
8800157	<del>†</del>	+	20A1-9A FLOW DGM	T	Ιū	JPL	MR62	GSE	32		62	J			7
8800158	1	1	DATA INPUTS		Ιŭ	JPL	MR62	GSE		1	62	Ú		1	١
8800159	+	+-	INPUT&OUTPUT REGISTR	+-	tŭ	JPL	MR62		32		62			<u> </u>	7
8800160			BIT/WORD/SUBFRAME		Ιŭ	JPL	MR62	GSE	32	05	62	Ĵ	1		1
8800161	<del>                                     </del>	+-	ACCUMUL / TIME / FUNCTIN	$t^{-}$	Ιū	JPL	MR62	+			62	J		<del> </del>	7
8800162			NUMERIC READOUT	1	Ιŭ	JPL	MR62	355	32	05	62	ī	l	1	- 1
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DRAWING LIST	CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARTINER R 62 GSE NUMERICAL	PAGE	10	4-12-63

:	DRAWING NO.		<b>1</b> 5 5	TITLE	4	1	10000		SE FOR			TASE	DRAWING CONTROL STATUS	MEXT	á
Ξ.		MG.	33		3		CODE	84 814L	THEY \$43.	81V.	<b>₩</b> 0,	70.		ASSENBLY	5
D	8800163			TTY CONVERTEREDRIVER	l	U	JPL	MR62	GSE	32	05	62	J		
<u>D</u>	8800164			20A1-9A SCIDATA TRAN	L	U	JPL	MR62	GSE	32	06	62	J		1
D	8900455		A	CONSOLE CABLE #4		U	JPL	MR62	GSE	35	01	63	J	8200050	
٥	8900456		Α	CONSOLE CABLE #1	L	U	JPL	MR62	GSE	35	01	63	J	8200050	1
D	8900457		Α	CONSOLE CABLE #3	Ì	U	J₽L	MR62	GSE	35	01	63	J	8200050	
D	8900458		A	CONSOLE CABLE #8		U	JPL	MR62	GSE	35	01	63	J	8200050	1
D	8900459		В	CONSOLE CABLE #2	П	U	JPL	MR62	GSE	35	01	63	J	8200050	T
В	8900460		A	CONSOLE CABLE #7		U	JPL	MR62	GSE	35	01	63	J	8200050	
$\overline{c}$	8900461		В	CONSOLE CABLE #5	Г	U	JPL	MR62	GSE	35	01	63	J	8200050	Т
¢	8900462		8	CONSOLE CABLE #6		Ų	JPL	MR62	GŞĒ	35	0ì	63	l J	8200050	L
c	8900463		A	CONSOLE CABLE #9		U	JPL	MR62	GSE	35	01	63	J	8200050	
C	8900471			GSE TEST AREA	L	U	JPL	MR62	GSE	35	12	62	J	8900469	
J	8900473		1	UMBILICAL JUNCT BOX		U	JPL	MR62	GSE	35	Ţ		0		
J	8900478			GSE S/C INTERFACE		U	JPL	MR62	GSE	35	12	62	J	8900469	1
В	8900479			2W21MR	Г	U	JPL	MR62	GSE	35	12	62	J	8900469	Т
В	8900480			2W22MR		U	JPL	MR 62	GSE	35	12	62	J	8900469	
8	8900481			2W23MR		U	JPL	MR62	GSE	35	12	62	J	8900469	Т
8	8900482			2W24MR		lυ	JPL	MR62	GSE	35	12	62		8900469	
B	8900483		1	2W25MR	1	U	JPL	MR62	GSE	35	12	62	J	8900469	Т
ċ	8900484			2W26MR		Ū	JPL	MR62	GSE	35		62		8900469	
Č	8900485		<del>                                     </del>	2W27MR		U	JPL	MR 62	GSE	35	12	62	Ĵ	8900469	Т
B	8900486		1	2W28MR		li.	JPL	MR62	GSE	35		62	اتا	8900469	
ř	8900487		t	2W29MR		Ŭ	JPL	MR62	GSE	35		62	1 J	8900469	t
B	8900523			2W332MR		ľ	JPL	MR62	GSE			62		8900469	
В	8900524		┼	2W333MR	$\vdash$	Ū	JPL	MR62	GSE	35		62	<del>  3                                   </del>	8900469	t
В	8900525		1	2W406MR		ľ	JPL	MR62	GSE	35		62	ا تا	8900469	İ
운	8900533		+	2W322MR	$\vdash$	ŭ	JPL	MR62	GSE		12	62	<del>  j   -</del>	8900469	t
В	8900542		l	2W324MR	ĺ	lŭ.	JPL	MR62	GSE	35	12	62	1 1	8900469	
В	8900545		+	2W334MR	+-	ŭ	JPL	MR62	GSE	35	12	62	1 5	8900469	t
8	8900546			3W21MR		li.	JPL	MR62		35		62		8900469	
В	8900547		+	3W22MR	$\vdash$	Ü	JPL	MR62	GSE	35		62	J	8900469	t
			1	3W27MR		l.	JPL	MR62	GSE	35	12	62	-	8900469	
8	8900548		+-		-		JPL	MR62	GSE	35			<del>   </del>	8900469	+
В	8900549		1	3W28MR		U	JPL	MR62		35		62	1 3	8900469	1
č	8900576	<u> </u>	+-	3W210MR	$\vdash$	14		MR62		35			1 ,		+-
ç	8900592		1	CA SYS GROUND CABLE	1	y	JPL	MR62	GSE	35	12	62	0	8900592	1
<del>j</del>	8900593	<u> </u>	-	GSE PWR JCT BOX	-	U		MR62			+	1/2		9000440	+
J	8900610		1_	WIR DGM GSE		U	JPL.		GSE	35		62	J	8900469	Ĺ
<u>J</u>	8900826	<u> </u>	Ç	MASTER CABLE BLK DGM	-	Ü	JPL		GSE	31	11	62	<u> </u>		+
J	9132344		İ	SHAKE FIXTURE	1	U	JPL	MR52	GSE	31			0		
J	9132780		l	COLD BOX-ELECTRONIC	1	U	JPL	MR62	GSE	37	0.8	161	<u> </u>		L

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				JET PR CALIFORNIA IN MAI	STIT	UTE	OF TEC		r, PASAD	ENA,	CALIF.		PAGE	11	4-12-6	
F	RAWING	LI	ST		_				100			1495			L + +12 U	_
i	DRAWING NO.	94637	15		ŧ	1	C008	BESIAL	THOU SEP.	DIV.	Wd.	76	DRAWING CONTROL STATUS		MEXT ASSEMBLY	
5	9132874			BATTRY TEMP CONT BOX		U	JPL	MR62	GSE	37		61	J			
_			L		L											
	SP30030	-2		IDENTIFICATION PLATE	1		ML	MR62		32	ĺ		0		l	
	2630081	-1		INDUCTOR SPECIFCATN		U	ML	MR62		32			0			Ī
_	SP30081		$\perp$	INDUCTOR SPECIFICATN	L	U	ML		GŞE	32			0		l	
i	5930081	-1		INDUCTOR SPECIFICATN	Ι_	U	ML	MR62		32		I	0			
_	SP30083		L	METER MARKING CALIBR	┡	Ų	ML	MR62		32	<b>_</b>		0		L	
	5P30084 5P30085	1		METER MARKING SCALE	l	Ü	ML	MR62		32			0			
-	30086		-	METER MARKING DATA	⊢	U	ML	MR62		32		-	0			-
i	540065		1	TEST PROCEDURE CONT		u	ML	MR62 MR62		32	ŀ		0 0			
_	50272	101	$\vdash$	MAGNETHTE CONT UNIT	⊢	ü	ML		GSE	32	-		<del></del>		<u> </u>	-
	50273	101		SCHEM MAGNETMER CONT		ŭ	ML	MR62		32			ŏ			
-	50290	101	+	BOARD ASSY CALIBRATE	⊢	ŭ	ML	MR62		32		$\vdash$	0		<del> </del>	-
	50291			BOARD CALIBRATE		ŭ	ML	MR62		32			ŏ		ľ	
_	T50292	101	Н	CIRCUIT MASTER	╁─	u	ML	MR62		32		$\rightarrow$	ö			-
	50293	İ		BOARD ASY FIELD GEN		ŭ	ML	MR62		32			ŏ			
_	50293	101	Н	BOARD ASSY FIELD GEN	┪	ŭ	ML	MR62		32	-	-	0			-
-	50294			BOARD FIELD GENERATE		ŭ	ML	MR62		32			ŏ l			
	T50295		1	CIRCUIT MASTER GERTR	1	ŭ	ML	MR62		32	_	$\vdash$	ŏ			-
į	50295	102	l	BOARD ASSY	1	ŭ	ML	MR62		32		1	ŏ			
	50300		Н	WIRING MAGNETMER	$\vdash$	ŭ	ML	MR62		32	_		ő		† · · · · · · · · · · · · · · · · · · ·	-
_	50301		Ļ	FRONT PANEL&CHASS	-	Ū	ML	MR62		32			0	,		-
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	120526			DOLLY DUAL CABINET		U		MR62		33			0			
_	120536		$\vdash$	POWER SUPPLY C-480M	$\vdash$	U		MR62		33			0		-	-
1		A		POWER SUPPLY C-280M POWER SUPPLY	l	U	MOT	MR62	GSE	33			0		1	
-		A	$\vdash$	POWER SUPPLY C-480	├-	U		MR62		33	<u> </u>	-	0		-	-
	120690		l l	PW SUPPLY JUE S	ĺ	U		MR62		33	l		0		l	
_	120694		-	POWER SUPPLY CARON	-	U		MR62		33	<b>├</b>	-	0		-	-
	122662			UNIVERSAL BD ASSY		U		MR62		33	:		0			
	122672			LIMITER OUTPUT AMPL	$\vdash$	U.		MR62		33	-	-	0			-
		B	Â	COMMAND MODULATOR AY	ł	u	MOT	MR62	GSE	33			0		1	
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				JET PR CALIFORNIA IN:	STIT	UTE		HNOLOG		ENA, C	ALIF.		PAGE	12	4-12-5	_
R	AWING	LI	ST			,			at the	.,,		EALS			4-12-3	_
ı	DRAWING NO.	8411	ŧ	TITLE	ž	3	CORE		7 H BU BE E.	BEST.		70.	CONTROL STATUS		MERT	
		В		MODULATORGLIMITER DR	Π	U			GSE	33			0		·	T
4	122675	В	+	COMM MOD INVERT AMPL	┞	U	MOT		GSE	33		$\sqcup$	0			4
1	122677	_		COMM MOD OUTPUT AMPL		ľ		MR62		33		li	0			
4		В		PC JK/T FLIP FLOP	┞-	-		MR62		33		$\sqcup$	0		ļ	_
	122687	-		PC INVERTER ASSY		1 -		MR62	GSE	33			0		1	i
_		<u>B</u>		PC TRL GATE 4/3 A	╙	ļυ		MR62		33			_0			_
1		В		PC CB - LEVEL AMPL	1	U			GSE	33			0		1	
	122690			PC BD LAMP DRIVER	╙			MR62		33	_		0			
Ì		В	A	PC BD EMIT FOLLOWER		ļΨ	мот	MR62	GSE	33			0			
4	122692			PC BD TRL GATE 3/3 B	<del> </del>	Ų.		MR62		33		$\perp$	_0		<del></del>	
ł		В		PC BD POWER DRIVER		ļυ		MR62		33			0		i	
4	122695			PC BD EMIT FOLLOWER	╙			MR62		33			0		ļ	_
İ	122699			PC PLUS LEVEL AMPL		ļυ		MR62		33			0		1	
	122713			PC CB TRL GATE 4/3 C	L			MR62		33			0			_
1	122714	В	A	PC CB TRL GATE 4/3 D		U		MR62		33			0		1	
		A		TUNED CAVITY	L_	U	MOT	MR62	GSE	33			0		[	
	122843	A		OSC HP 122AR	Γ	Ū	MOT	MR62	GSE	33			0			Ī
Į	123234	Α		AMPLITUDE MODULATOR		U	МОТ	MR62	GSE	33			0		ŀ	
	125454	8	Α	PC CB WORD COUNTER		Ū	MOT	MR62	GSE	33			0			_
	125455	В	la l	PC CB LIMITER	ĺ	lυ	Мот	MR62	GSE	33	1		0		ł	
	125456	В	В	PC CB CHOP DEMODULTR	Г	ΙŪ		MR62		33			0		1	_
	125481	e		UNIVERSAL BD A	ľ	Ιŭ		MR62		33			ō l		Ī	
	125482	B	A	UNIVERSAL BD B	Т	ŭ		MR62		33			o		† · · · · · · · · · · · · · · · · · · ·	_
		В		PC CB CHOP DEMOD DR	l	Ιŭ		MR62		33			ŏ		1	
1	125484		A	PC CB SHAPER ASSY	1	ŭ		MR62		33			ö			-
1	125485			PC CB MONOSTABLE	l	lй		MR62		33	- 1		ŏ		1	
1	125518		Â	SUMMING AMPLIFIER	┢	ľů		MR62		33	_	$\neg$	ŏ			-
1	125571			UNIVERSAL BD C	1	lĭ.		MR62		33			ŏ			
+	125572		Â	UNIVERSAL BD D	1	U		MR62		33	-	-+	-0		1	-
1	125626		Â	UNIVERSAL BD F	•	1		MR62		33	i		ŏ		1	
1	125628		ľ	GROUND AMPLIFIER	<del>  -</del>	Ш		MR62		33		$\vdash$	ŏ		1	-
	220539	,	I^	NUT PLAIN CAP		1	MOT	MR62		33	- 1		ŏ			
1	220547	^	╁	NUT PLAIN CLINCH	┢	Ψ.				_		-			<del>} -</del>	-
ı	220547	^			l	U		MR62		33			0		1	
+		A	+	NUT PLAIN PHASE DET	$\vdash$	u		MR62		33		-	<u> </u>		<del> </del>	-
1	222846			NUT HEX PLAIN X	!	U		MR62		33		1	0		1	
4	223228		-	NUT CLINCH R ANGLE	⊢	Ų		MR62		33		$\rightarrow$	<u> </u>		<del> </del>	_
Į	322786	A		SCREW TUNED CAVITY	1	U	MOT	MR62	GSE	33			0		1	
4	322793	A	H	SCREW CONTACT	-	U		MR62	GSE	33			0		<del> </del>	_
	322795	A		SCREW PLATE CAVITY	l	U	MOT	MR62		33	- 1		C			
	322845	Α		SCREW TUNER CAVITY	L	IJ	MOT	MR62	GSE	33			0		1	- 1

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R	AWING	. L1	s T	MAF				52 GSE					PAGE	13	4-12-6	3
Ī	DRAWING NO.	945F 80.	f :	TITLE	1	3	74 P001	PAIO	17 FOR	1657. 317.		TASE TE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
†	720572	A	$\vdash$	BRACE SIDE RH OSC	Г	U	MOT	MR62	GSE	33			0			_
1	720573	Α		BRKT PW SLIDE LH		U	MOT	MR62	GSE	33	L_	$\sqcup \sqcup$	0		<u> </u>	
t	720575	Α	П	BRKT LWR CHASSIS SUP	П	U		MR62		33			0			
۱	720578	Α		BRACE SIDE LH OSC	١	U		MR62		33	L		0			
t	720583	A	I	BRACKET BATTERY		U	MOT	MR62	GSE	33		1 1	0		1	
١	720596	A	t	GUSSET CHASS XPONDER	1	U	MOT	MR62	GSE	33	1		С		I	
t	720597	A	1	BRACKET TRANSFORM MT	Т	U	MOT	MR62	GSE	33			0		1	
ł	720598	l A		SUPPORT BOLOMETER		U	MOT	MR62	GSE	33	1		0		1	
t	720599	1	$\vdash$	SUPPORT DIRECT COUPL	t	ũ	MOT	MR62	GSE	33		1	0		1	_
l	720610	1	1	BRACKET POWER CORD	l	Ιŭ	MOT	MR 62	GSE	33	l		0			
t	720629		+-	MOUNT COIL	t	ŭ	MOT			33		! 1	ō		1	-
l	720630		1	BRKT PW SUPPLY VERT	l	ŭ	MOT			33			o l		1	
ł	720641		╁	SUPPORT RE LOAD	H	ŭ	MOT			33	$\vdash$		0		1	-
l	720643	i .	ı	SUPPORT CABLE PWR		Ĭŭ		MR62	_	33		1 1	0		1	
ŀ	720645		╂	BRACKET CHASSIS	-	ŭ		MR62		33		<del> </del>	<del>5</del>		<del> </del>	-
ı	720646	Â	ı	BRACKET CHASS LH		Ιŭ		MR62		33	ļ		ŏ			
ļ		1	↓_		⊢	ü	1	MR62		33		<del>}                                    </del>				
l	720648	1	ı	SUPPORT CHASS PW MTR	l	1 -		MR62		33	1		٥			
ļ	720657	Α	↓_	BRACKET MT DIODE	↓_	U					├—	<del>i</del> -	-5		+	-
l	720663	1	ı	SUPPORT ATTENUATOR	1	U		MR62	1	33	ļ		-		İ	
ļ		Α	1-	BRKT INSUL STRIP NJE	↓_	Ų		MR62		33	ļ.—	<del> </del>	0		+	
l	720673		1	BRKT MT TRANSPONDER	l	U		MR62		33			0			
l	720676		1_	BRKT MT MONITOR LH	l.	ļυ	+	MR62		33	ـــــ	-	0		<del> </del>	_
Ì	720677	A	1	BRKT MT MONITOR RH	1	U		MR62		33	1		0		1	
ļ	720680	] A	1	BRKT MT TRANSPONDER	L	U				33			0			
l	722762	A	Т	GUSSET CHASS XPONDER	Г	U	MOT	MR62	GSE	33	1		0			
١	722764	A	1	SIDE FRAME CHASS	ı	U	MOT	MR62	GSE	33			0		1	
t	722765	A	1	SIDE FRAME CHASS	Т	U	MOT	MR62	GSE	33			0			
Į	722766	Α	1	SUPPORT PLATE CHASS	L	U	MOT	MR62	GSE	33			0			_
t	722776	Α	Т	BRACKET INSULATING	Г	Ü	MOT	MR62	GŞE	33			0			
١	722799	A		SIDE FRAME CHASS	1	Ü	MOT	MR62	GSE	33	L	1_	0			
t	722800	A	Т	SUPPORT PLATE CHASS	Т	U	MOT	MR62	GSE	33	1		0		1	
I	722802	Α	1	SIDE FRAME CHASS		U	MOT	MR62	GSE	33	l		0		1	
t	722828		1	SUPP FREQ MULT-FRONT	Т	U	MOT	MR62	GSE	33	1	1	0			
١	722829	1	1	SUPP FREQ MULT-REAR		Ú	МОТ	MR62	GSE	33	ļ	-	0		1	
t	722840	A	+	BRKT MOUNT BERT	1	Ū	MOT	MR62	GSE	33	1		Ō			_
ļ	722849	1		SUPPORT VARIABLE		Ū	MOT	MR62	GSE	33	l		0		1	
ł		A	+	SUPP PREQ MULTIPLIER	十	Ιŭ	MOT	MR62	ĞSE	33		1	0			
I	722851	F		SUPP FREQ MULTIPLIER		lŭ	MOT	MR62	GSE	33	1		0			
+	722853		+	SUPP DIRECT SUBASSY	†	Ιŭ	MOT	MR52	GSE	33	1		-0			-
١	1020664	1	1	SOLDER SILVER NICKEL		Ιŭ	MOT	MR62		33			ŏ		1	
1	102004	-	_	LIST	۰.	,,,	10	1	1-00	1	-				JPL 0513 JU	-

JET PROPULSION LABORATORY

CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

MARINER R 62 GSE NUMERICAL 4-12-63

	DRAWING NO.	8+5H	11.	TITLE	4	3	*******	HAI	ASE FOR	PERF.	MAT #	ORAWING CONTROL		NEXT ASSEMBLY	
-	1/10//			INSUIATING STRIP	+-	ů		MR 62	GSE	33	H5, 18.	STATUS			+
	1420665			SHIELD TERM BOARD				MR62		33		0		1	-
-	1422775		-	INSULATING STRIP	╁	ü		MR62		33		ŏ		<del> </del>	+
	1422779			INSULATOR BUSHING		ŭ		MR62		33		ŏ		1	١
	1422792			INSULATOR CONT SCREW	╁╌	ŭ		MR 62		33		Ö		<del> </del>	H
	1422848			INSUL CRYSTAL UNIT		Ü		MR62		33		ŏ		1	
_	1423239			INSULATOR DISK-DIODE	╀	Ιŭ		MR62		33		ŏ —		<del>-}</del>	-
	1423237			INSULATOR BUSHING		1.5		MR 62		33		0			
_	1520524		-	HOLDER CRYSTAL UNIT	⊢	5		MR62		33		<del>- ŏ</del>		<del> </del>	
				BOX FILTER		U		MR62		33		ō			
_	1520534		1		╀╌	U				33	<del> </del>	0		+	-
	1520550			COVER ACCESS ELECT		1 -		MR62				0			
_	1520559		1	COVER OSCILLATOR	╄	U		MR62		33		0		ļ <u> </u>	-
	1520606			COVER ACCESS ELECT	1	U		MR62						}	
_	1520652		$\vdash$	BOX VCO BIAS	╀	10		MR62		33		0		ļ	-
	1520655	1		COVER ACCESS REF GEN		U				33		0		1	
	1520661		$\vdash$	COVER VCO CONTROL	1	U		MR62		33		0			-
	1520671		i l	COVER SHIELD CIRCUIT	1	U		MR62		33				1	
_	1520675		١.	COVER SHIELD DISTRI	↓	U		MR62		33	ļ	0		1	-
	1522741			POWER SUPP MODIFICTN	1	U	MOT	MR62				-		1	
_	1522742		A	POWER SUPP MOD	<del> </del> −	U		MR62		33		0		+	-
		Α	1	SHELL DIODE	1	U	MOT	MR62		33		0			
	1522804		$\vdash$	COVER SW SHIELD	↓_	U		MR62		33		0			-
	1522805		H	SHELL CAVITY X7		U		MR62		33		0			
_	1522847	Α		COVER XMITTER SUBASY		U	-	MR62		33	L	0			_
	1522859	A	1	COVER ELECT CONNECTR	1	U	MOT	MR62		33		0			
	1523220		L	COVER ACCESS CONN	_	U	MOT	MR62		33		0			
	1523227	Α	П	COVER FREQ SHIFTER		ļυ	MOT	MR62		33		0		1	
	1523229		_	COVER FREQ SHIFTER	┖	U		MR62		33	L	0			_
	1523230	Α	1	COVER RECEIVER 30MC	1	U	MOT	MR62		33	1 1	i o			
	1523231	Α	1	COVER RECEIVER AM	L	Įυ.	MOT	MR62	GSE	33		0			_
	1523233	A		BOX LOOP FILTER	1	ĮŲ	MOT	MR62		33		0			
	1524221	Α	L.	BOX FILTER	↓_	Ų		MR62		33		0			_
	1620527	Α	1	CABINET DUAL		U		MR62		33		0		1	
	1620528	Α	L	DRAWER	1_	ļυ	MOT	MR62	GSE	33		0		ļ	
	1620529	Α	Ι	SHELF SELECTION		U	MOT	MR62		33		0			
	1622830			DOOR CABINET MODIFD	Ĺ	υ	MOT	MR62		33		0			
	2220545	A		PIN GROOVED		υ	MOT	MR62		33		0			
	2620656	Α		SHIELD SEMICOND DIOD		U	MOT	MR62		33		0			
•	2620670	Α	Ī	SHIELD CKT BREAKER	Τ	U	MOT	MR 62	GSE	33		0			
	2620674	Δ	1	SHIELD CKT BREAKER		lυ	MOT	MR62	GSE	33	1 1	0	i		

+ DENOTES CHANGE TO PREVIOUS LIST

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F	RAWING	. L1	s t	CALIFORNIA IN: MA <sup>c</sup>					r, pasadi E NUME				PAGÉ	15	4-12-6	
	DRAWING NO.	#45.H	# ±	TITLE	1	3	71 ×+01	HAJD HAJD	13 FOE F 17 EM	1137. 107.		74	DRAWING CONTROL STATUS		NEKT ASSEMBLY	_
Ī	2620681	Α	1	SHIELD TERMINAL BD		U	MOT	MR62	GSE	33			0			-
J	2622761	Α		SHIELD TERM BD PW	i	U	мот	MR62	GSE	33		;	0			
Ī	2622774	A	Г	SHIELD SWITCH		Ū	MOT	MR62	GSE	33			0			
	2720540	Α		POWER SUPPLY NUE		U	MOT	MR62	GSE	33			0			
Ī	2720544	Α	T	CHASSIS VCO MULTIPLE		Ū	MOT	MR 62	GSE	33			0			-
	2720548	A		CHASS ELEC MIXER		U	мот	MR62	GSE	33			0			
Ī	2720552	A	<del> </del>	POWER SUPPLY C-280M	_	İυ	MOT	MR 62	GSE	33		1	0			-
	2720556	Α	1	CHASS ELECT EQUIP		u	MOT	MR62	GSE	33		!	ō l			
7	2720557	Α	t	CHASS RF OSC 14MC	-	Ū	MOT	MR62	GSE	33		$\vdash$	ŏ		-	-
	2720561	Α	ı	CHASS NARROW BAND	1	U	MOT	MR62	GSE	33			ō l			
1	2720562	Α	1	CHASS REF SIG GEN	-	ŭ	MOT		GSE	33		1	5			-
	2720563	Α	1	CHASS 3MC VCO	l	ů	MOT	MR62		33			ŏ			
1	2720571	A	<del> </del>	CHASS XMTR	┢	ŭ			GSE	33	-	$\vdash$	<del>- ŏ  </del>		+	-
i	2720574	A	1	CHASS FREQ COUNTER	)	ŭ		MR62		33	- 1	1	ŏ		1	
. 1		A	$\vdash$	CHASS VCO 33MC	⊢	Ü		MR62		33			<del>-ŏ</del>		<del> </del>	_
	2720584		i	CHASS CONN P.F.		Ü			GSE	33	- 1		ŏ		1	
		Ã	-	CHASS VCO CONTROL	_	H		MR62		1			0		<del>                                     </del>	
- 1		Â		CHASSIS FREQ CONVERT		li.				33			-		į.	
	2720593		$\vdash$	CHASSIS OSCILLOSCOPE	_	U		MR62	GSE	33	_		0			_
		Ā	l i	CHASSIS XFORMER		li.					-		- 1		İ	
		Ā	$\vdash$	CHASS XPONDER		<u> </u>			GSE.	33			0		ļ	_
		A	H	CHASS AMPLITUDE DET		U		MR62		33	- 1	- 1	0		1	
	2720644		$\vdash$			Ų.		MR62		33	1		0			
			H	CHASSIS ELEC EQUIP		U		MR62		33	Ì	i	0			
ı		A	1_1	CHASS 3MC PH DET		U	MOT			33	_		0			
ŀ	-	A		CHASS FREQ MULTEMOD		U			GSF	33	į		0		1	
-1		A		CHASS XMTR SUBASSY		Ų				33	į		0		1	
- 3		A		CHASS CONN 3 MCGDET		U	мот	MR62	GSE	33	[		0		T	
. 1		A		CHASS CONN PHASE DET		U	MOT	MR62	GSE	33	i	1	0			
		Α	1	CHASS CONN AMP DET		Ū	MOT	MR62	GSE	33			0			Ī
-1		Α	L	CHASS CONN 30 MC		U	MOT	MR62	GSE	33		!	0		1	
		Α	П	CHASS CONN REF SIGN		U				33			0			
		Α	Ιl	CHASS CONN 3 MC VCO	1	U	MOT	MR62	GSE	33	- 1		0		1	
- 1	[	A	П	CHASS CONN MIXER		U	MOT	MR62	GSE	33		$\neg$	0			-
i	2724087	Α	Ιl	CHASS ISO AMP D.C.		υl	MOT	MR62	GSE	33	- 1	- 1	0			
Ī	2724087	A	П	CHASSIS ISO AMP DC		U.	MOT	MR62	GSE	33			0		<del> </del>	~
	2724088	Α		CHASS ISO AMP		u	MOT	MR62	GSE	33	- 1		Ö			
t	2724088	A	1	CHASSIS ISO AMP	$\neg$	v	MOT	MR62	GSE	33			0		†	-
ł	1724689	Α		PLATE MTG AMP D.C.	ı	1)				33	ì		c l			
1	2724089	4		PLATE MIG AMP DC	-	Ŭ.		MR62		33	-	$\rightarrow$	0		· -	-
		4		PLATE MIG AMP A.C.						33	- 1		0			

) F	RAWING	. LI	ST	JET PR CALIFORNIA IN MAR			OF TEC	HNOLOG		ENA, (			PAGE	16	4-12-5	
Ĭ	DRAWING NO.	945H 80.	15	TITLE	į	3	V1 ND48	#430	ASE FOR	PELP.		EASE TE	DRAWING CONTROL		MEXT	_
_	2724090	۸	1	IPLATE MTG AMP AC	ř	11/	1	MR 62	THEF SEE.	33	¥0.	10.	O		7335 7351	_
	3120649		ı	TERMINAL BOARD		U	MOT		GSE	33			0			
-	3120668		+	TERMINAL BD TRANSPON	!-	ᇤ	MOT			33			0		+	•
	3122854			TB LOOP FILTER		ľű		MR62		33			0 0			
_	3122854		+	TB LOOP FILTER UPPER	+-	lü		MR62		33	-	$\vdash$	0		1	
	3122855			TB LOOP FILTER LOWER		ľ		MR62		33			0		1	
-	3123221		$\vdash$	TB 30 MC PHASE DET	-	Ü		MR62		33			0		<del></del>	
	3123222			TERMINAL BOARD	1	Ľ				1 1			-		1	
	3123223		+	TB 3 MC PHASE DET	$\vdash$	10		MR62		33			0			
	3123224			TB DIFF AMPL	İ	U	MOT	MR62		33			0 0		1	
-	3123989		$\vdash$	TRAMP DET	⊬	ĮŲ.		MR62		33			0		<del> </del>	
į	3422777			1	1	U	MOI	MR62	GSE	33	į		0		1	
4		Α	ļ	DIAL CONTROL	<b>!</b>	U	MOT	MR62		33			0		ļ	
	3820678	A	1	PLUG RESISTOR RET		U	MOT	MR62		33			0			
_	3922781	A	$\perp$	COND SECTION TUNED		Ų		MR62		33			0			
ĺ	3922789		1 1	CONTACT ELECT CAVITY		U		MR62	1	33		1	0		1	
	3922796		Ш	CONTACT ELEC: DIODE		U		MR62		33			0			
		Α	П	CONTACT ELECTRICAL		U	MOT	MR62	GSE	33			0			
	3923237	Α		CONTACT ELECTRICAL		U	MOT	MR62	GSE	33	-		0			
	4220542	Α	Н	RETAINER TURNLOCK	Ī	U		MR62		33			0			
	4220560	Α	Ш	RETAINER PACKING		U	MOT	MR62	GSE	33	i		0		ł	
	4222768	Α	П	HOLDER SEMICOND DEV	l	U	MOT	MR62	GSE	33			0			
3	4222856	Α	L_I	CLAMP LOOP		Ų	мот	MR62	GŞE	33	ł		0			
1	4224098	Α		CLAMP CABLE		Ü	MOT	MR62	GSE	33			0			
Į	4224098	Α	!	CLAMP CABLE		U	мот	MR62	GSE	33	ì	Į	0			
1	4320551	A	$\Box$	NUT SPACER PLATE		Ü	MOT	MR62	GSE	33	- 1		Û			
ı	4320555	А		SPACER FREQ CONVERTE	i	u	мот	MR62	GSE	33	1		0			
1	4320582	A	П	SPACER BATTERY BRKT		U	MOT	MR62		33		$\neg$	ō			
ļ	4320586	A	1	SPACER PHASE SHIFTER		Ū		MR62		33	- 1	- 1	ŏΙ			
ļ	4320679	A		SPACER PANEL NUE SS	_	ú		MR62		33			0			
	4322782			ALIGNMENT DEVICE		lŭ		MR62		33	i		ŏ			
t	4322788		$\vdash$	SLEEVE CAVITY		ı,		MR62		33		-	0		t	
ł	4322803			SPACER SNAPSLIDE		Ľi.		MR62		33	j		ő		!	
1	4322857		1-1	SPACER SLEEVE TERMNL	_	1		MR62		33			0		1	
ļ		Ā		SPACER THREADED TERM		Ш	MOT	MR62		33		- 1	o l		1	
t	4323225		1	SPACER TB	-	U		MR62		33	_	-+	ŏ		i	
١	4323238			SPACER SLEEVE DIODE		ľ		MR62		33	į	- [	ő		1	
t	4520603		1-+	SLIDE IN CHASS TRAK		U.			GSE -	33			0		<del> </del>	
		Â		STUD TURNLOCK FAST		lu l		MR62		33	- 1		å		i	
		<u>^</u>	1	STUD TRANSPONDER MT		U			GSF	33			0		ļ	
١		Ã		STUD EXT CRYSTAL FIL					65E	33	į		o l		1	
ı	HOTES CHANGE TO					U	MUI	PIRO.	2226	231	:		<u> </u>			_

				JET PRO			-							DATE LISTE	ED.
_				CALIFORNIA INS				HNOLOGI 52 GSE				PAGE	17	4-12-6	3
Ť	AWING		ST	TITLE		115	71		SE FOR	PE 10.	#11.1A1# DATE	DRAWING		NEXT	1
<u>.</u> T			1		٠	<u> </u>	CODE	BIBIAL	THEU 348.	917.	NO. 31	STATUS		ASSEMBLY	٤
	4620662			BLOCK VARIABLE ATTEN		lu.		MR62		33		0		l	1
	4720567 4720592		$\vdash$	ROD CIRCUIT BREAKER BAR SLIDE MOUNT	-	ļΫ		MR62	GSE	33		+ 5 1		<del></del>	+
- 1	4720600		1	BAR CLAMPING	ı	U	1 -		GSE	33		0		1	-
	4720639		H	SHAFT SWITCH	-	tü		MR62	GSE	33		1 0			+-
	4722852		ļ	BAR CLAMPING XMTR		ŭ		MR62		33		l o			
_1	4920532		-	RETRACTOR CABLE	╁╴	ŧΰ	MOT			33	$\vdash$	1 0			+
1	4922785	Α	l	DISK CAVITY CENTER		Ų	MOT	MR62	GSE	33		0			1
+	5424086	A	<del>                                     </del>	PANEL CONNECTOR	T-	U	MOT	MR62	GSE	33		0			T
	5520530	A		HANDLE LOCK		U	MOT	MR62	GSE	33	L!_	0			1
1	5520531	Α	Г	HANDLE LOCK & TRIGR		U	MOT	MR62	GSE	33		0			- 1
	5823980			ADAPTER CONNECTOR	L	U		MR62		33	L			ļ	4
- 1	5920533	A		FAN EXHAUST	1	U		MR62		33		0			-
- 1	6224081	A	L	PANEL FRONT	L	U		MR62		33	ļ <u>i</u>	0		<del> </del>	+
- 1	6322808			SCHEM XMITTER TEST		U		MR62		33		_			1
	6322809		<u> </u>	SCHEM FREQ MULTEMOD	ļ.,	U	1		GSE	33		0			+
	6322810		İ	SCHEM RECEIVER TEST	1	U		MR62		33		0		1	-
	6322811	<u> </u>	L	SCHEM RADIO RECEIVER	1	U		MR62	G5E	33	i	0	-		-
- 1	6322812			SCHEM 14MC RF OSC SCHEM OSC RF 33 MC	i	U		MR62		33		0			
	6322813 6322814	A	+	SCHEM AMPL DET RF	1	10	MOT	MR62	GSE	33		0		1	+
	6322815	1''		SCHEM PHASE DET RE	1	lu	1.70	MR62		133		0			1
	6322816		╁╴	SCHEM AMPL INTMED	t	Ü	MOT	MR 6 2	GSE	33	t t	0			$^{+}$
	6322817			SCHEM FREQ CONV		ŭ		MR62	GSE	33		0			
	6322818		+-	SCHEM REL CONV	t	Ū	MOT	MR62	GSE	33	1	C		1	7
	6322819		ı	SCHEM COHERENT FREQ		υ	MOT	MR62	GSE	33		0			- 1
力	6322820	A	╈	SCHEM OSC RF 3MC VCO	T	Ū	MOT	MR62	GSE	33	1-1-	0		T	T
	6322821	Α	ı	SCHEM 33 MC MIXER	<u> </u>	U	MOT	MR62	GSE	33	Li_	0			_
Л	6322822	Ä	Т	SCHEM PH DET 3 MC		U	MOT	MR62	GSE	33		0			
	6322823	Α		SCHEM NETWORK PHASE	_	U	+	MR62	GSE	33	1i_	0		<del></del>	-
Л	6322824	Α		SCHEM GENERATOR REF	1	U	MOT	MR62	GSE	33		0			- 1
	6322825		1_	SCHEM MONITOR TEST	L	ĮΨ	MOT	MR62	GSE	33	<u> </u>	0			4
- 1	6322826	Α	1	SCHEM MOUNT XPONDER	1	U	MOT	MR62	GSE	33	1 1	0		1	- 1
1	6322827		L	SCHEM XPONDER MOUNT	┺	U	MOT			33	<b>↓</b>	0			-
	6323232	A		SCHEM AM MODULATOR		U	MOT	MR 62	GSE	33		0		1	- 1
	6323506	Α	$\perp$	SCHEM 30 MC TEST OSC	+-	U	MOT	MR62	GSE	33	+			+	$\dashv$
	6323585	A		SCHEM-14 MC RF OSC		10	MOT	MR62		33		0		1	
	6324103	A	+	S/C TEST ADAPTER MONITOR SIG INTCON	+-	10	MOT	MR62	+	33	+ +		<del> </del>	+	+
- 1	6324104	1	1	IDUAL D.C. AMP SALAL	1	lu		MR 62		33		) n	1	1	ļ

| 6324103 | S/C TEST ADAPTER | 6324104 | A | MONIYOR SIG INTON | 6324105 | A | DUA, D.C. AMP 5A1A1 | DEMOTES CHANGE TO PARYIQUE LIST

JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.
MARINER R 62 GSE NUMERICAL

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	DRAWING NO.	#16# #0.	15	TITLE	1	3	C028		* 17 FM THEN BED.	PIEP.	91.1414 9171	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
	6324106	Δ	-	DUAL A.C. AMP 5A1A3	H	Ü	MOT	MR62		33	10. 11	3	<del>                                     </del>	+	-
	6324107			R.F. SIGN INTCON 5A2	ı	ŭ		MR62		3.3		1 0	1		
-	6325457		В	SHAPER SCHEMATIC	†-	11	MOT	MR62		33		ō			-
	6325458			WORD COUNTER SCHEM	ı	ŭ		MR62	1 -	33		0		Ì	
-	6325459			MONOSTABLE SCHEMATIC	+-	ŭ		MR62		33	<del> </del>	0	1		-
	6325487			CHOPPER DEM DR SCHEM	ı	Ιŭ		MR62		33		1 0			
-	6325488			LIMITER SCHEM	╁╌	tů	MOT	MR62		33		3	1	1	-
	6325489	-		CHOPPER DEM SCHEMATC	ļ	Ĭ.	1	MR62		33		1 0			
_	6325529		12	J-K-T SCHEM FLIP FLP	+-	tü	MOT	MR62		33	<del>                                     </del>	ŏ	-		-
	6325551	-	lc'	MODULATOR LIMIT SCHM	1	Ĭŭ		MR62	1 -	3.4		0			
-	6325552		\ \alpha	LIMITER OPUT SCHEM	t	10		MR62		33		0	1		7
	6325553		1	COMMAND MODULT SCHEM	1	ľ		MR62		33		0			
-	6325554		12	SUMMING AMPL SCHEM	H	lü	MOT	MR62		33		0	†		-
	6325555	-	c	• • • • • • • • • • • • • • • • • • • •		ľ	1	MR 62	1	33		0			
_	6325556			COMMAND MOD SCHEM	+-	Τŭ	MOT	MR62		33		0	<u> </u>		-
	6325557	_	1	SCHEM JK/T FLIP FLOP		li.	1	MR62		33		0	i		
	6325558		Ā	MONOSTABLE SCHEM	╁	10	MOT	MR62		33	<del>  -  </del>	0	1	<del></del>	-
	6325559	-	1	SCHEM TRL GATE C		I,		MR62		133		a			
_	6325560			SCHEM TRE GATE D	+	+	MOT	MR62		33	1	0	1		-
	6325561	-		SCHEM POWER DRIVER		10		MR62		33		0	1	1	
_	6325562			SCHEM LAMP DRIVER	+	Ιŭ		MR62		33		0	1		-
	6325564			SCHEM TRE GATE A		li.		MR62		33		0		1	
-	6325565			SCHEM TRL GATE B	+-	iii		MR62		33	<del>  </del>	1 0	<del>                                     </del>	<del> </del>	-
	6325566			SCHEM EMIT FOLLOWER	1	ĭ		MR62		33		1 0	}	1	
	6325567	_		SCHEM EMIT FOLLOWER	+-	<del>۱</del> ۲	MOT			33	<del>                                     </del>	0	+		-
	6325568	_		SCHEM INVERTER	ł	ľ	MOT	1		33		0		1	
_	6325569			SCHEM POS LOGIC LEVL	+	tŭ	MOT			33		0	+	1	-
	6325570			SCHEM NEG LOGIC LEVE		li		MR62		33		lő	Ì	1	
-	6325579		+	UNIVERSAL BD SCHEM 2	+-	Ti-	MOT	MR62	+ <del></del>	33	1	1 0			-
	6325580	-		SCHEM LINE AMPL		I,	1 -	MR62	1 -	33		1 0			
-	6325589			SCHEM POWER TURN ON	1-	T		MR62		33	1	1-0	<del>+</del>		-
	6325590			SCHEM SW29&SCOPE	1	Ľ	1	MR62	t -	33		0			
_	6326594		14	SCHEMATIC CONVERTER	╁╌	10		MR62		33	1	1 0	+	+	-
7			1	PLATE MOUNTING PLAIN	1	10		MR62		33		0			
	6420553		+	PLATE MOUNTING PLAIN	╀	10		MR62		33	<del> </del>	1 0	+	<del></del>	-
	6420558			PLATE MOUNTING	ļ.	10		MR62		33	1	0			
	6420564		+	PLATE MOUNT IF AMPL	+	10		MR62		33	+- +-	<del>  0</del>	·		~
	6420565		1	PANEL POWER	1	10	1	MR62		13		0			
_			+	PANEL POWER MONITOR	+	10		MR 52		133	<del></del>	c	+		-
	6420568		1	PANEL FRONT AMIR	1	10		MR62	055	3.3		0	1	1	

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F	RAWING	. L1	s t	MA A				52 GSI					PAGE	19	4-12-6	53
	DRAWING NO.	BASE 80.	4 5	TITLE	1	3	TEMBOR CODE	2210	904 104 * 1778	1017.	PATE	CO	AWING		HEXT ASSEMBLY	
_	6420576	A	-	PANEL CONNECTOR	<del>ٻ</del>	Ü		MR62	7940 114.		MD. 1		ATUS		ASSEMBLY	
	6420579		1	PLATE MOUNT REF SIGN	1	, -			GSE	33		9				
-		Ä	⊢	PLATE MOUNTING 3 MC	+-	li.		MR62		33		- 0				_
	6420585			COVER CONN RE SHIELD		1 -			GSE	33						
-		Ā	┼	PANEL FREQ SHIFTER	+-	Ü	MOT	MR62		33	<del></del>				<del>  </del>	_
	6420588	Â		PANEL COHERENT FREQ	1	u		MR62		33					1	
-	6420591		┼-	PANEL INDICATOR	+-	ü		MR62		33		1 6			ļ	_
	6420601	Â	l	PANEL PW SW XPONDER		П		MR62		33	Ì				1	
-	6420601		⊢	PANEL PWR DISTRIBUTE	₩	Ü			GSE	33	<u> </u>	-1-6			<del> </del>	
		Â	ŀ	PANEL CONNECTOR	1	lü.		MR62		33	l				I	
_	6420607		-	PLATE MOUNT VCO 33MC		U			GSE	33		0			<del></del>	_
		Â		PLATE ATTENUATOR MT	1	ľů				33	1	- 1			i	
	6420609		-	PANEL FRONT XPONDER	╄	Ü		MR62				10				_
		Â		PANEL BLANK RECEIVER	ļ	1 -			-	33	1	0				
_	6420612		┞-	PLATE MOUNT PLAIN	+-	ļυ		MR62		33		0		· · · · · · · · · · · · · · · · · · ·	<b></b>	
1			l i		1	U		MR62		33		70				
4		Α	<u></u>	PANEL XPONDER MARK	↓	υ		MR62	_	33		0				
	6420617	1.7		PLATE MOUNT PLAIN	1	U	MOT		GSE	33	ĺ	0				
		Α	L	PANEL ENGRAVED FREQ	┺	U		MR62		33		0				
	6420640		H	PLATE SUPPORT	1	Ú		MR62		33	i	0	- 1		i	
	6420642		Ш	PANEL RECEIVER	ــــــــــــــــــــــــــــــــــــــ	U		MR62		33		_ 0			<u></u>	
- 1	6420650			PLATE MOUNT SWITCH	1	U		MR62		33	- 1	0				
	6420651		Ш	PLATE BOX VCO BIAS	_	U		MR62		33						
	6420658			PANEL BLANK MONITOR		U		MR62		33	i	0				
	6420659			PLATE RET SHAFT	<u> </u>	U		MR62		33		_ 0				
	6420669			PLATE MOUNT FREQ		U		MR62		33		0				
				PLATE RETAINING DRAW	L	U		MR62		33		c				
- 1	6420682			PANEL IND HP	L	U		MR62		33		0				
-		A		PLATE MOUNT SHIFTER	1_	U		MR62		33	i_	0				
		A		PLATE CAVITY END	1	U	MOT	MR62	GSE	33	İ	0				
		A	Ш	PLATE CAVITY TOP	L	U	MOT	MR62	GŞE	33		0				
- 4	6422801			PLATE CONNECTOR XMTR		Ü	MOT	MR62		33	- 1	Ö				
				PLATE FREQ SUBASSY	L	Ų	MOT	MR62	GSE	33		0			L	
	6423226			PLATE MOUNT PH DET		$\subset$	MOT	MR62	GSE	33	1	0				
	6423235			PLATE MOUNTING AM	L	υ	MOT	MR62	GSE	33		0			1	
T	6423988	A		PLATE MOUNT RECEIVER	П	¢	MOT	MR62	GSE	33		C			-	_
J	6424080	Α		PANEL RF SIGN		U	MOT	MR62	GSE	33	i	0			1	
	6424080			PANEL RF SIGN		U	MOT	MR62	GSE	33		0				
	6424082		╚	INSULATING BOARD	L	u	MOT	MR62	GSE	33		0				
	6424082			INSULATING BOARD		U	NO F	MR62	GSE	33		0				_
1	6424084	A		COVER BOX MGC BIAS		u	MOT	MR57	GST	33	- 1	0				

0424082 A INSULATING BOARD
6424084 A COVER BOX MGC BIAS

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JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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	6424084			COVER BOX MGC BIAS		U				33			0			7
_	6424086		乚	PANEL CONNECTOR	L	U	MOT	MR62	GSE	33			0		1	
	6424091			BASE MONITOR SIG	İ	U	MOT	MR62		33			0			
_	6424091	Α	1	BASE MONITOR SIGN		U	MOT	MR 62	GSE	33	l	[	0			
	6424095			BASE R.F. SIG		U	MOT	MR62	GSE	33			0			٦
	6424095	Α	1	BASE RF SIGN		U	MOT	MR62	GSE	33		1 1	0			
	6424096	A	Г	PANEL SPACER	Т	Ü	MOT	MR62	GSE	33			0			٦
	6424096	I A		PANEL SPACER		U	MOT	MR62	GSE	33			0		ļ.	
	6424097	A		PLATE MTG COAXIAL	П	υ	MOT	MR62	GSE	33			0		1	7
	6424097	Α		PLATE MTG COAXIAL	Į	υ	MOT	MR62	GSE	33			0			-1
_	6424100	Α		PLATE ACCESS	Γ	Ū	MOT	MR62	GSE	33			0		1	1
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	6424100	Α		PLATE ACCESS	Τ	Ū	MOT	MR62	GSE	33			0		İ	٦
	6424100	Α		PLATE ACCESS	1	Ū		MR62		33			ō 1			
	6424101	Α		PLATE SPACER SW		u	MOT	MR.62	GSE	33	_		0		<del>                                     </del>	7
	6424101	Α		PLATE SPACER SW		lū		MR62		33			o I			
_	6424220	A		PLATE FILTER MOUNT	+-	υ		MR62		33		-	0		<u> </u>	+
	6426594			890/960 CONVERTER	ı	lŭ		MR62		33			ŏ			
.j	6922807			BLOCK DGM PLD RAD	✝	ŭ		MR62		33		$\vdash$	ō		<del> </del>	+
	6925530			SYN TELEMETRY	L			MR62		33			ŏ			
		8		BIT COMPARATOR LOGIC		ŭ		MR62		33		$\vdash$	ŏ			+
	6925532			ADDRESS MONITOR	Ì	Ü		MR62		33			ő		ı	1
F	6925533			CC&S MONITOR LOGIC	1	u		MR62		33		$\vdash$	<del>-</del> <del>0</del>			+
н	6925534			TIMER SUBASSY LOGIC		U		MR62		33	ĺ		0			ì
	6925535			WORD GENERATOR LOGIC	-			MR62		33	_		0		<del> </del>	-
		8		COMMAND MODULATOR		1)		MR62		33					1	
	6925581			DYNAMICS AMPLIFIER		5				33	i	$\dashv$	0		ļ	4
o	6925586	6				- 1			GSE		- 1					
_	6925587			TEST HARNESS CABLES ISOLATION AMPL CONN	-	U.		MR62		33	<del>- i</del>		0		<b></b>	4
						- 1	MOT	MR62		33	i	- 1	0			i
	6925588			ISOLATION AMPL CONN	-	u		MR62		33		+	0			4
י	6925591			CABLE HARNESS INST				MR62		33	j		0		1	
_	7520605			CUSHION COVER	1			MR62		33	i	$\longrightarrow$	9		<del></del>	4
	8422680			PRINTED WIRING PLAIN					GSE	33	i	İ	0		1	
_	8422681			PRINTED WIRING PLAIN	Ш			MR62		33			0			-
	8422682			PRINTED WIRING PLAIN				MR62		33	į	- 1	0			
	8422683			PRINTED WIRING PLAIN	ш			MR62		33			0		1	
	8422684	- 1		PRINTED WIRING PLAIN		U			GSE	33	ļ	- 1	0			į
	8422685			PRINTED WIRING PLAIN	Ш	U		MP62		33	i		0		ļ <u>.</u>	
	8422696			PRINTED WIRING PLAIN		U	мо⊤	MRG2		33	į	I	0			1
	8422598	8	l c l	PRINT WIP MONOSTABLE	Lſ	υi	MOT	MR62	GSE	33	ļ	- 1	0			•

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1		wo.	1	*			CODE		THE STR.	89.	BATE No. 1 Va.	CONTROL STATUS			+
	8422858			PRINTED WIRING PLAIN				MR62		33		0		1	
	8425450			PRINTED WIRING PLAIN	┖			MR62		33		0			4
	8425486			PRINTED WIRING PLAIN				MR62		33		O .			ŀ
	8425629	8	A	PRINTED WIR AMP.		U	MOT	MR62	USE	33		0			
	17016		L	SCHEM NUS PRINT CON		U	NLS	MR62	GSE	32	i i	0			
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	39060	-	$\dagger$	SCANNER				MR62		32		y .			
	39060	T	Т	OUTLINE DIGITAL SCAN	ı	Ü	RP	MR62		32	i ,	0		1	
	39171		-	MODIFIED EECG AMPL		Ų	RP.	MR62	USE	32		9			
_	ER387	-	+	SHIPPING CONTAINER	$\dagger$	Ū	ZRO	MR62	GSE	38		0		†	
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		80.						SC TIAL	THEN	PIV.	ne.	70.	DRAWING CONTROL STATUS		HEXT ASSEMBLY
	8900826 9132344		1	MASTER CABLE BLK DGM SHAKE FIXTURE				MR62 MR62		31	11	6.2			
	9132780		╁	COLD BOX	╁			MR62		31			0	-	_
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=	DRAWING NO.	845#	1 :	TITLE	1	1	7E×002	4111	411 FOR	4117.		71	DRAWING CONTROL		HERT	
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_	1298	128		20A1-15 FLEXOWRITER	ı	ļΨ	ccc	MR 62		32		1	ē l			ī
_	600066			DCS LOGIC DIAGRAM	-	U	ccc	MR 52	GSE	32.			С			
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	15004	166		CABLE 20AZ DVM	Τ-	U	CSC	MR62	GSE	32	<del> </del> -		- o			┨
:	31186	À	1	MTG PLATE RADIOMETRO	1	υ	csc	MR62	GSE	32			0		1	Į
٦	189945			HASPESTAPLE PLATE	1-	U	CSC	MR62	GSE	32			Ö		<del></del>	+
3	311741			BRKT-MTG CONTROL BOX		Ū	csc	MR62		32	1		ō		1	Į
3	311742			BRKT-MIG CONTROL BOX	Т	Ū	CSC	MR62	GSE	32	T	1	Ö		1	+
١	311743			COVER CONTROL BOX	1	U	CSC	MR62	GSE	32			0		1	
)	311744		_	ENCLOSURE CONT BOX	$\vdash$	Ū	CSC	MR62	GSE	32			0			-
Ξ	311820			FRAME SUPP RADIOMIRC		U	CSC	MR62	GSE	32			0		ł	
	311821		T	LIFTING JACK	1	U	CSC	MR62	GSE	32	-		š		<del></del> -	-
-	311822			BLOCK SWIVEL CLAMP		u	CSC	MR62	GSE	3.2			Ġ.			
-	311823		╁	BLOCK SWIVEL CLAMP	+-	Ū		MR62		32			-5			
3	311824			LOCATING PIN		ΙŭΙ		MR62		32			o l			
3	311826	-		SCREW SWIVEL CLAMP	<del>                                     </del>	Ū		MR62		32			- o			-
3	311827			SET SCREW SWIVEL		Ū		MR62		32	1		ŏ			
	311828			SWIVEL CLAMP GUIDED	<del>                                     </del>	Ü.		MR62		32			- <del>0</del>	·	<del> </del>	4
-	311829			SWIVEL CLAMP	1	ŭ		MR62		32			ŏ			1
5	311830		Н	FRAME PWR SUPPLY MTG	1			MR62		32			Ö			4
5	311831			CHASS PWR SUPPLY MTG				MR62		32			0			i
	311832		Н	FRAME	-	ŭ	CSC	MR62		32	-		- 0			4
Ξ	311833			ASSY-COLUMN LOCK	İ			MR62		32			ŏ			
-	311834		Н	MOUNT OK 306 KLYSTRN		Ü		MR62		35			- 6			_
	311836			MTG PLATE-SYSTEM #1	1	1 1	-	MR62		32			o l			1
-	311838			SUPPORT WAVE GUIDE	⊢	5	CSC	MR62		32	!		0			4
	311839			MTG BRKT THERMISTOR	ı			MR62		32					l	-
Η	311840		Н	MTG BRKT KLYSTRON	├	0		MR62		32		$\vdash$	0			4
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3	311881		-	MTG BRACKET-FREQUENC				MR 6 2		32			0			4
3	311885			MTG BRKT VARIABLE CAP-SPRING RETAINER		U.		MR62		32			0			- 1
3	311902			CLAMP	-	Ų.		MR62		32			0			4
3	311931					U		MR62		32			0			1
3			$\vdash$	SUPPORT PWR SUPPLY	$\vdash$	_		MR62		32			0			- 1
	312179			SCHEM RADIOMETRIC		V	_	MR62		32			0	i		- 1
2	312487			SCOPE MOUNT	ļ	U		MR62		32			0			_1
:	312578			PLATE DEGREE INDICTR				MR 6 2		32		.	0			1
3	312579		1 1	VERNIER DEG INDICATE	F	ΙUΙ	ICSC '	MR 6?	G5F	3.5			0		1	- 1

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DF	RAWING	i LI	<b>S</b> 1	MARINER F	₹6;	2 (	SSE	NUMER	ICAL 6	3 4 6	VIC		PAGE	3	4-12-6	3
[	DRAWING NO.	BALEW BG.	1:	TITLE	į	1	70 x 004		11 FOR	RESP.		1451	DRAWING CONTROL STATUS		NEXT	1 5
A	312582		$^{+}$	ANTENNA VANE ADAPTER	H	u	CSC	MR62		32		1	0		<del>                                     </del>	۰
В	312583		1	DEGREE PLATE	l	Ιŭ		MR62		32		1	lõ			
В	312584		Т	MTG DEGREE PLATE		Ú		MR62		32			ō			
8	312585			VERNIER DEGREE		U	CSC	MR62	GSE	32			0			
B	312617		Ι	ADJUSTMENT SCREW	Γ	U	CSC	MR62	GSE	32			0			
5	312617			COVER ANTENNA	L	U		MR62		32			0			1 .
C	312617			WINDOW ANT COVER	Ι-	Įυ		MR62		32			0			
<u></u>	312618		_	MTG ADJUST VERNIER		Ü		MR62		32	L.	Ĺ	0			1_
8	312619	İ		MTG ADJUST VERNIER		U			GSE	32		ł	0	i		
C	312620		4-	CLAMP DEG MTG PLATE	┡			MR62		32	L.	<u> </u>	_0			1_
В	312621	ļ		NUT ADJUSTMENT SCREW	l	U		MR62		32		ĺ	0		i	1
9	312622		╁	GUIDE DEGREE PLATE	┡			MR62		32		<u> </u>	0			4
C	312639			COVER KLYSTRON CONN	l			MR62		32		į	0			1
B	312646		╄	TOOL BOX	⊢			MR62		32	ļ.,	<u> </u>	_0			ļ
E	312647		1	TRAY TOOL BOX	1			MR62		32			0	İ	1	
	312685		╀	COVER MTG PLATE #1	1_			MR62		32	<u> </u>		0		ļ	┷
Ε	312000		1	COVER MTG PLATE #2		U			GSE	32			0		1	1
B	312777		╀	PLATE HANDLE MTG	ļ	U		MR62		32		-	0			-
1 1	312777			SUPPORT PEDESTAL		U		MR62		32			0 0			
6	312100		⊢	BRACKET-LEVER ARM SPACER PLATE SCOPE		-		MR 62		32		-	<u> </u>		-	+
В	312924			SCREW COVER ANTENNA	ł	U		MR62 MR62					0			
В	312947		+-	STOP COVER ANTENNA	$\vdash$	U		MR62		32			0			╁╌
B	312948		1	BOTTOM STOP COVER				MR 62		32			0	•		
В	312962		-	KNURL SCREW COVER	-	ŭ		MR62		32	-		0	-		+
l e	312963			TOP MTG BRKT COVER				MR62		32			0	ĺ		1
13	312965		+	SPACER COVER ANTENNA	1	Ü		MR62		32	-	$\vdash$	0			+
8	312969			PLUGS-WAVE GUIDE				MR62		32			0			1
0	312995		$\vdash$	PLATE FRAME MTG	Ι-	Ŭ		MR52		32		-	0			1
Ā	313000			RETAINER CRADLE		ŭ		MR62		32			ő			
В	313007		Г	WRENCH ANTENNA	Г	Ŭ		MR62		32	-		0			
$\vdash$			-		H	Ĺ							-			+
С	118285			CABLE 20A4-3 GENERTR		U	JPL	MR62	GSE	32	03	62	J			-
В	118286		T	RADIOMETER SCAN TEST	_	Ū		MR62			02					1 –
C	118292			WLMAGNETOMETER EXP		U		MR62		32			0			
C	118293			WL CLOCK TO DCS		U		MR62		32			0			
(	118294		Ι.	WL IC PF RADGED EXP		10	JPL	MR 62	655	32			a			

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MARINER R62 GSE NUMERICAL BY DIV PAGE 4-12-63 DRAWING LIST U JPL MR62 GSE
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20023 20024 20025 C
C 20024 TO 2006-P1
A 20022 TO 2006 P2 118552 32 11 61 32 12 61 118553 32 12 61 32 12 61 32 12 61 32 12 61 32 12 61 118554 A 20A22 TO 20A6 P2 A 20A21 TO 20A6 P3 A 20A6 P4 TO 20A0 P1 A 20A6 P5 TO 20A0 P2 20A0-3 MECHANICAL LO A 20A0-4 MECHNICAL LO 118555 118556 118557 32 12 61 32 01 62 32 03 62 32 01 62 32 01 62 32 01 62 32 01 62 32 01 62 32 05 62 32 05 62 118559 118561 20A0-5 MECHANICAL LO 20A0-5 MECHANICAL LO
CLOCK PULSE GENERATR
SCHEM DIGITAL SCAN
SCHEM 11 VOLT
20A1-2 MECHAN LO
20A0-2 MECHANICAL LO
SCHEM S/C PWR CONTRL
A SCHEMATIC SOL PLASMA
SCHEM SWITCH SUBASSY
20A0-2 SCHEM PWR SW 118562 U JPL MR62 GSE U JPL MR62 GSE 118563 118564 UJPL MR62 GSE U JPL MR62 GSE U JPL MR62 GSE U JPL MR62 GSE U JPL MR62 GSE U JPL MR62 GSE U JPL MR62 GSE 118567 32 01 62 32 02 62 32 01 62 118569 118570 118840 20A0-2 SCHEM PWR SW MED COUNTERS 32 05 62 32 01 62 32 01 62 32 01 62 118573 U JPL MR62 GSE U JPL MR62 GSE
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JPL 0513 JUNE 61

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P	AWING	L I	s t	JET PRO CALIFORNIA INS MARINER F	TIT	UTE	OF TE	HNOLOG	, PASAD	ENA,	CALIF		PAUE	5	4-12-6
	DRAWING NO.	9 4 5 M	ŧ :		. 5	25.00	Y( 5501	MAJO MAJO STRIAL	SE TER STER THE SER.	8517		TASE Eart	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	118775		†	20A6 P7 FLOW SHEET		TU	JPL		GSE	3.2	112	61	J		1
П	118780		18	2046 ISOLATN SCHEM		U	JPL	MR62	G\$E	132	03	62	ا ز		1
	118781		À	20A6 CKT BD1		ĪŪ	JPL	MR62	GSE	132	0.3	62	J		1
ā	118782		18	20A6 CE2		lu	JPL	MR62	GSE	32	103	62	J .		
Ĵ	118786		Ċ	20A0+12 SCHEMATIC	ţ	U	JPL	MR 6.2	GSE	132	105	162	j		
	118787		`	CABLING THRU 20A6		lū.	JPL	MR62	GSE	32	0.1		j		ļ
В	118823		Ā	20A1-2 WIRING DGM	$\vdash$	Ū	JPL	MR 6.2	GSE	132	165	162	ii j		1
c	118824		A	20A0-2 WIRING DGM		lu.	JPL	MR62		32			.i l		1
۲	118825		A	20A0-3 WIRING DGM	+-	ΙŬ	Jal	MR62			To 5	+	<del>5</del>		
В	118826		A	20AD-5 WIRING DGM		Ĭŭ.	JPL.	MR62					Ĭ.		
5	118830		+2	20A1-12 SCHEM PWR		Ĭΰ	JPL	MR62	GSE	3.2			j		1
ς '	118831			SCHEM PWR SUPPLY		ŭ	JPL	MR62		32		62	J		
Ü	118835	•	+-	SUBCHASSIS SW SUBASY	H	Ĭŭ	JPL	MR62	GSE	32	.01				118840
ن	118836		1	SUBCHASS CUR INJECT		ľů	JPI	MR62	U3 E	32					118842
3	118837		+	COVER CURRENT INJECT	<del> </del>	lŭ	JPL	MR52	GS€	32	<del>+</del> -	+			118842
c	118838			GASKET CUR INJECTION		Ĭŭ	JPL	MR62				162	j		118842
	118839			BRACKET SW SUBASSY	⊢	łΰ	JPL	MR62		132	01		J 1		118840
ر ال	118840		1	SWITCH SUBASSY		U	JPL	MR62		32		62	, i		118842
			╀	PROBE ASSY	<del> </del>	H	JPI	MR62	GSE	3.2	0.1		<del>j</del>		118842
J	118841				l	U	JPL	MR62	GSE	32	01				110042
<u>J</u>	118842		ļ—	CURRENT INJECTION	⊢	-	JPL	MR62	GSE	32	01		<u> </u>		118842
C	118843		İ	RETAINER		U	JPL	MR62			0.2				110042
D	118884		Ļ	SKETCH PATCH PNL LO	<del> </del>	Ü			GSE	32			<del>-</del>		+
Ċ	118885		l <sup>A</sup>	BRACKET		٥	JPL	MR62	GSE		01		J		
C_	118887		-	ZOAC 59 CABLL	ļ	L.	JPL	MR62	GSL			*	·   -		<del></del>
C	118888			20A1-60 FLEXOWRITER		U	JPL	MR62	GSE	32			J		
C	118893		JA.	20A1-5 WIRING DGM	⊢	IU	JPL	MR62	<u>05</u> ₺	3 4					<del> </del>
C	118894		A	20A0-16 20A1-16 CBLE	1	U	JPL	MR62	SSE	3.2			J		
В	118895		1.	DCS ANALOG VOLTAGE		Įυ	JPL	VR62	65E		105				<del> </del>
C	118896		A	20A1-C1 CABLE	ĺ	ĮŲ	JPL	MR62	GSE	32		1 .	J		
<u>C</u>	118897		A.	20A1-C2 CABLE	ļ_	ļu	JPL	MR62		32					4
C	118898			20A1 C3 CABLE	ı	U	JPL		G5E	3.2	1.5	1 7	J		i
<u>C</u>	118899		1_	20A1 C4 CABLE	ļ	Ų	JPL.	MR62		32		F 1			+
C	118900			20A1 C5 CABLE		U	JPL	1	GSE	134			J		
Ç	118901		$\perp$	20A1 C6 CABLE	1	U	JPL	MR62			0.1		. J		
Ç	118902			20A1 C7 CABLE	1	U	JPL	MR62		32			1		
C	118903	l		20A0 C1 CABLE	Ì	U	JPL	MR62				62	J		1
C	118904		A	20AC CZ CABLE		Ū	JPL	MR62	-		0.2		J		
C	118905			ZOAG C3 CABLE	1	U	JPL	MR62			0.4		J		J
C	118906		Ī	20A0 C4 CABLE		U	JPL	MR62			101		j		
C	118907	l		20AS CS PLUG B CABLE		Ιu	JUPL	MR62	35E	3.2	102	10.2	1 2		

R	AWING	1.1	ςτ	CALIFORNIA IN MARINER I									PAGÉ	6	4-12-6	
Ï	DRAWING NO.	P41H 40.	1 5	TITLE	ğ	CLASS	VE#507	SERVE MAJO	1-12-51	PESP.		141	STATUS	-	NEXT ASSEMBLY	
+	118908		A	ZOAO C5 PLUG E CABLE	+	tu	JPE	MR 62	GSE	132	0.3	62	- J		<del>                                     </del>	t
1	118909			20A0 C6 PLUG A CABLE		Ū	JPL	MR 62	USE		02	62	J			- [
t	118915		+	20A0 C6 PLUG D CABLE	t	U	JPL	MR62	GSE	3.2	0.2	62	J			-†
l	118911			20A1 CB CABLE		U	JPL	MR 62	G5E	32	0.3	62	١		i	ş
+	118912		+	20A1-C9 CABLE	+-	lu	JPL.	MR62	G5E	132		- 1	0		<del> </del>	1
1	118913		A	20A1 C10 CABLE		Ιū	JPL	MR 62	GSE	3.2	03	62	ا ز			1
1	118915		1	SCHEM SOL PLASMA	╁	tū	JPL	MR62	GSE	32	01		<del>-j</del>		<b>†</b>	+
1	118925		10	DCS		Ĭŭ.	JPL	MR62		1	0.5	: - 1	ا ز			-
+	118954		1	WE POWER SW EXP	╁	U	JPL	MR62		132	14.5	1	<del>- 5 +</del>		<del> </del>	+
1	118955			WL SOLAR PLASMA EXP	ļ	Ĭ	JPL	MR62		132			ō			1
+	118962		╁	20A0-15 MECHAN CONN	╁	tũ	JPL			32	0.2	67	-5		1	-
1	118963			20A1-14 MECHAN CONN		lü	JPL				0.2		j			
+	118964		╁~	20A1-7 VISICORDER	╁	tü	JPL	MR62	GSE	32			- <del>j</del> +		-	-
	118965		1~	SCIENTIFIC RACK LO		Ĭŭ	JPL				0.2	1	J			
+	118966		╀	CABLE 20A3-4	+	tü	JPL	MR62	GSE	132	0.3		- <del>j-</del> +		<del> </del>	۲
- 1	118967		ı	CABLE 20A3-1 MAGNET		ľ	1	MR62			03	1	ŭ			
1			┺		-	10	JPL	MR62	GSE	132	103		<del>- j</del>			4
T	118968		1	CABLE 20A3-4 PWR CON		10	1			1	1 ~ -	1	J			
$\perp$	118998		C	20A1-13 WIRE LIST TH	╀-	U		MR62			03	04				
Т	121040		1	SCHEM 100TF BINARY		ļU		MR62		3.2			U		1	
1	121306		1_	20A0-9 WIRING DGM	1	ĮŲ.	JPL	MR62	GSE_	34						4
	121307			20A0-9 BACK PNL SDT		U	JPL	MR62			0.3		J		1	
1	121321		1_	CSC 2.4 KC PWR SUPP	$\perp$	U	JPL	MR62			04				1	
Т	121321		i i	20A0-10 CSC 2400 CPS		U	JPL	MR62			04		J			
1	121352		8	20A1-3 WIRING SYS	L	Ų	JPL	MR62			0.5	162	J			
7	121795			SCHEM 100TF LAMP		U	JPL.	MR62		32	1		Ü			
.	121796			SCHEM 100TF6105T		U	JPL	MR62		32	1		0			_
	8800036		T	20A0-12 MECHAN TRACK	ì	U	JPL		1 -		102	62	J			
- 1	8800038		1	2CAO-14 MECHAN INSUL	1_	U	JPL	MR62	GSE			62	J		1	
П	8800039		Т	20A0-12 CHASS LOGIC		U	JPL	MR62	GSE			62	J			
.	8800040		-	20A0-12 WIRING BD1	L	U	JPL	MR62	65£	32	0.2	62	J			
. 1	8800040	PL	T	20A0-12 BD1	1	U	JPL	MR62	GSE	3.2	0.2	62	J			
,	8800041		A	20A0+12 WIRING BD2		U	JPL	MR62	GSE	3.2	10.4	62	J			
	8800041	PL	1	20A0-12 BD2	1	U	JPL	MR 6 2	G5 E	3.2	102	62	J			
	8800042	1	1	20A0-12 WIRING BD3	1	U	JPL		GSE	[32	102	62	J L		1	_
. 1	8800042	PL.	T	2CAO-12 803		IJ	JPL	MR62	GSE	32	02	62	J			
- 1	6800043	_		20A0-12 WIRING BD4		U	JPL	MR62	GSE	3.2	0.2	62	J			
_1	8800043	PL.	+	20A0-12 BD4	+	U	JPL	MR62	GSE	32	152	62	-j		-	
	8800044	-		20A0-12 WIRING BD5		10	JPL	MR62			1	62	ارا		1	
	6800044	pi	+-	20A0-12 Ph5	- †- ·	J		MR62		132		+			1	- 1
- 1	2800044	-		20A0-12 M INCL LO	1	J		MR 62		132		63	1		1	
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) F	RAWING	L I	<del>.</del> .	· · · · · · · · · · · · · · · · · · ·		_	1		11 701	7	111111			,		_
Ī	DRAWING NO.	PACH PO.	35		5	Cleas	COOR		7 176 M	BESP.	0.17 E		CONTROL STATUS		NEXT ASSEMBLY	-
2	8800046			20A0-12 MECHAN COVER		U	JPL	MR62	GSE	32	02 6	- 1	J			7
	8800047		1	20A0-14 MECHAN HEAT	L	U	JPL	MR62	GSE	32		2	J			
	8800057		18	TTY/FLEX CONVERSION	ŀ	U	JPL	MR62	GSE	32	05 6	- 1	J			1
2	8800059		Α	20A1-15 SCHEM RELAY	⊢	U	JPL	MR62	GSE	32	05 6		J		<b>.</b>	_
- 1	8800061		i	20A1-15 MECHAN BRKT TTY CONVERSN TERMNAL	1	U	JPL	MR62	GSE	32	02 6	- 1	J.		İ	
	8800062		⊢	TTY CONVERS CIR DOM	-	Ü	JPL	MR62	GSE	32	02 6		J	_	ļ	_
	8800063		1	20A1-9A SPECIAL MOD		U		MR62 MR62	GSE	32	02 6	- 1	,			
•	8800070		A	BASIC SUB-FRAME	⊢	Ü	JPL	MR62	GSE	_	02 6	2	<u> </u>		+	_
_	800080		1	20A0-12 WIRING BD2	Į	li.	JPI	MR62			03 6		J		1	
	8800082		$\vdash$	20A0-4 BRACKET CYCL	-	ŭ	JPL	MR62	GSE	32	03 6		<del>-</del>		<del>                                     </del>	-
	8800083			20A0-4 ASSY CYCLIC		Ĭĭ.	JPL	MR62	GSE		03 6		J			
	380C084		B	20A0-4 SCHEMATIC	┢	ŭ			GSE	32	05 6		<del>-</del> 5		<del></del>	-
	8800085		A	20A0-4 CB CYCLIC CAL		Ĭŭ.		MR62		32	03 6	- 1	Ĵ			
T	8800094			SCHEM RADIOMIR MOTOR	1	lü	JPL	MR62	GSE	32	03 6	_	J		t	-
١	8800095		П	RADIOMETER BLOCK DGM		ľű	JPL	MR62	GSE		03 6	- 1	J		1	
1	3800096		H	LO FRONT PANL RADMIR	$\vdash$	tū	JPL		GSE	32	03 6		<del>- j</del> -		+	-
۱.	8800097		A	INPUT ONE SHOT CIRCT		Ιŭ		MR62		1	04 6	- 1	Ĭ			
1	8800098		A	INPUT ONE SHOT SCHEM	$\vdash$	Ŭ.			GSE	32	04 6		<del>j</del>		<del> </del>	-
1	8800099		1	LOGIC DOM DIGITAL		ΙŪΙ	JPL	MR62	-	32	03 6	- 1	ا ز		i	
1	8800101			CONNECTOR PANEL		Ū			GSE	-	05 6		J		1	-
	8800102		A	PANEL A MODIFIED		υ	JPL	MR62	GSE		05 6		J		ļ	
Ī	8800103			PANEL B MODIFIED		Ū	JPL		G5E	32	05 6	2	J	***	†	
1	8800104			PANEL C MODIFIED	l	U	JPL	MR62	GSE	32	05 6	2	J			
1	8800105		П	INTERPANEL MODIFIED		U	JPL	MR62	GSE	32	05 6	2	J			•
	8800106		H	20A1-3 MECHAN SYS SW		U.	JPL	MR62	GSE	32	03 6	2	J			
Ī	8800107		П	20A1-5 MECHAN LO		Ū	JPL	MR62	GSE	32	03 6	2	J			-
1	800108		L.i	20A0-9 FRONT PNL SDT		U	JPL	MR62	GSE	32	03 6	2	J		l	
- 1	8800109		A	20A0-4 WIRING DGM		С	JPL	MR62	GSE	32	05 6	2	J			•
-+	ნ800111			20A1-9 MODULE SCHEM		U	JPL	MR 62	ĞŞE	32	04 6	2	J			
Ì	8800112			DEC 4111		U	JPL	MR62	GSE	32	04 6	2	J			
-+	8800113		Ш	DEC 4301		٦	JPL	MR62	GSE	32	04 6	2	J			
	8800114			DEC 4113		U	JPL	MR62	GSE	32	04 6.		J			
	8800115			DEC 4215		U	JPL	MR62	GŞE	32	04 6.	2	ا ر			
	8800116			DEC 4213		U			GSE		05 6.	2	J			
	8800117			DEC 1682		U			GSE		05 6.		J			
	8800118			DEC 4410		U			GSE	- 1	05 6.	2	J			
	8800119		-	DEC 4209		Ü	+		GSE		05 6.	2	J			
- 1	8800126			20A1-13 SUBASSY TB	- 1	U		MR62			04 6.	- +	J		i	i
1	8800129		Щ.	SCHEM 20A25 XFORMER	ļ	U	JPL	MR 62	GSE	3.2	04 6.	2	J			Į

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DRAWING LIST	MARINER R62 GSE NUMERICAL BY DIV PAGE	8	4-12-6
	a SELESSE FOR SELESSE DELINING		

1	DRAWING NO.	#45H #0.	2 2	TITLE	1	1	YE MPD 1	H # # 10	15 FOR	#157. #27.		1416	DRAWING CONTROL		ASSEMBLY	
	8800134		-	INTERNAL OSCIL SCHEM	Ε.	i i	JPL	MR62	7 C C	2.5	0.5	10.	STATUS	-		_
	8800135			INTERNAL OSCIL CIRCT		lu.			GSE	32	1	62	J		l	
	8800136		+-	20A1-9A WIR DGM	Н	U	JPL		GSE	32	05	62	<del></del>			_
	8800137		İ	MODIFIED FRONT PNL		U		MR62		32		62	J		1	
	8800156		Ι.	MODIFIED SOT READOUT	Н							62	J		<del> </del>	_
	8800157		l^	20A1-9A FLOW DGM	H	~			GSE	32	0.5	62	J			
	8800158		-	DATA INPUTS	Н	U	JPL		GSE GSE		05	62	<del></del> _	<u> </u>		_
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	8800150		⊢	BIT7WORD/SUBFRAME		5	JPL					62	<del>_</del> <del>j</del>			
	8800161		ŀ	ACCUMUL/TIME/FUNCTIN					GSE			62	-	1		
	8800162		├_	NUMERIC READOUT	-	U			GSE			62	J	ļ		
	8800163			TTY CONVERTER&DRIVER		U	JPL		GSE			62	J		1	
	8800164		-	20A1-9A SCIDATA TRAN	Ш	U			GSE			62	J.		<u> </u>	
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7	SP30081	-1		INDUCTOR SPECIFICATN	П	Ū	ML	MR62		32		$\vdash$	O O		†	
	SP30083			METER MARKING CALIBR		Ū	ML			32			o.	ì		
7	SP30084		П	METER MARKING SCALE	$\neg$	Ū	ML			32		$\vdash$	0	<del> </del>		
- 1	SP30085			METER MARKING DATA		ŭΙ	ML			32			ő	1	ł	
7	30086			METER MARKING TEMP	$\dashv$		ML			32		$\vdash$	0	<del> </del>	<u> </u>	-
- 1	S40065			TEST PROCEDURE CONT	١.			MR62		32			٥			
7	50272	101		MAGNETMIR CONT UNIT			ML			32						
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+	T50292			CIRCUIT MASTER						32			<del>-</del>	<del> </del>	ļ	
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Ţ	50294			BOARD FIELD GENERATE	- 1			MR62		32		ı	0	1		
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+	50300	104		WIRING MAGNETMER				MR62		32		$\rightarrow$			<b></b>	_
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	106462		1	MOD ANTENNA PANEL	+-	Ū	JPL	MR62	SSE	33		61	L		<del> </del>	
i	106466	ļ	A	SKETCH SCHEM	ı	Ιŭ	JPL	MR62		33		61	J J			
1	106469		Α	COMMUNICATIONS	Т	Ū	JPL	MR62	GSE	33	12	61	5		<del> </del>	-
I	106471		A	TEST CABLE #2		lΰ	JPL	MR62				61	Ĵ			
	106472	1	A	TES! CABLE #1	t	ŭ	JP1	MR62		33	12	61	<del></del>			_
	106489		ļ	GSE CABLING		ŭ		MR62			01		ا ز			
7	108489		+	SCHEM ADAPTER RACK	╁	Ü		MR62	GSE		0.8	62	-5		<del></del>	_
	119200	1	1	GSE BLOCK DGM	ļ	_		MR62		33	lo <sub>0</sub>	02	0		İ	
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	120526		-	DOLLY DUAL CABINET	H	U	MOT	MR62	GSE	33			0			_
1	120536			POWER SUPPLY C-480M	١,	U	MOT	MR62	GŞE	33		<u> </u>	0			
ı		Α		POWER SUPPLY C-280M		U,	MOT	MR62	GSE	33		-	Ö			-
١	120549	Α	1	POWER SUPPLY		υl	MOT	MR62	GSE :	33			ō l		}	
T	120554	Α	Г	POWER SUPPLY C-480		Ü	MOT	MR62	GSE	33	_		o l			-
١	120690	Α	1 1	PW SUPPLY JUE S		Ū		MR62		33			ŏ			
1	120694	Α		POWER SUPPLY C480N				MR62		33			<del>-</del> 6 +			-
١	122662	В		UNIVERSAL BD ASSY	li	ŭ l		MR62		33			ŏ			ĺ
1	122672	В		LIMITÉR OUTPUT AMPL		-		MR62		33	_	$\vdash$	0			-
1	122673	В		COMMAND MODULATOR AY				MR62		33			0			
1	122674	В		MODULATOR&LIMITER DR				MR62		33						4
١		В		COMM MOD INVERT AMPL						- 1			0			
+		<u> </u>		COMM MOD OUTPUT AMPL	$\dashv$	_		MR62		33			0			
1	122686			PC JK/T FLIP FLOP		~ 1	MOT		GSE	33			0			1
+	122687			PC INVERTER ASSY	$\overline{}$			MR62		33			0			
ı	122688					- 1	- 1		GSE	33			0			Ţ
+	122689			PC TRL GATE 4/3 A	$\rightarrow$	_		MR62		33			0			1
I				PC CB - LEVEL AMPL	- 1	- 1		MR62		33		i	0			1
+		B		PC BD LAMP DRIVER				MR62		33			0			1
ı	122691			PC BD EMIT FOLLOWER	- 1	- 1		MR62		33		T	0			1
1		В		PC BD TRL GATE 3/3 B	-			MR62		33	i		_ 0 _			
1	122694			PC BD POWER DRIVER	- {	UΪ	мот∣	MR62	GSE	33	1		0			1
ļ	122695			PC BD EMIT FOLLOWER	_!	υĺ	mo t	MR62	GSE	33	1	- (	o I			
I	122699		В	PC PLUS LEVEL AMPL	_	U	MOT	MR62	GSE	33	_;		0			Ť
l	122713	8	A	PC CB TRL GATE 4/3 C		υl	мот I	MR62		33	- {	1	o l			I
T	122714	В		PC CB TRL GATE 4/3 D				MR62		33	+	$\dashv$	0			+
١	122779	A I		TUNED CAVITY				MR 62		33	- 1	1	ŏ	İ	-	ł
T	122843			OSC HP 122AR	-			MR62		33		- +	0			ļ
		A		AMPLITUDE MODULATOR				MR62		33	ì	- 1	6		i	i
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. 1		PAFM	15	TITLE	1.	3	*****	940	1 1768	41.12.	PATE	DRAWING		NEXT ASSEMBLY	i
1	DRAWING NO.	NO.	3 5		15	8	2008	BERIAL	Teta \$14.	prv.	MD. YP	STATUS		ASSERBLI	4
1	125454	8		PC CB WORD COUNTER	П	U	MOT	MR62		33	l i	0		1	
1	125455	В	Α	PC CB LIMITER		U	MOT	MR62	GSE	33		0			_
1	125456	В	В	PC CB CHOP DEMODULTR	1	ļυ		MR62		33		0 1			
ŧ	125481	В	Α	UNIVERSAL BD A	1_	U	MOT	MR62	GSÉ	33		0			_
7	125482	В	Α	UNIVERSAL BD B	T	U		MR62		33	1	0			
İ	125483	В	Α	PC CB CHOP DEMOD DR	1_	U		MR62		33		0			
1	125484	В	A	PC CB SHAPER ASSY	Т	U		MR 62		33		0			
١	125485	В	Α	PC CB MONOSTABLE		U	MOT	MR62	GSE	33		0			
1	125518		A	SUMMING AMPLIFIER	Т	U		MR62		33		0			
1	125571	lв	A	UNIVERSAL BD C	1	U	MOT	MR 6.2	GSE	33		0			
1		B	A	UNIVERSAL BD D	Т	Īυ	MOT	MR62	GSE	33		0		1	
١	125626	В	A	UNIVERSAL BD F	1	Įυ	MOT	MR62	GSE	33		0			
Ħ	125628	В	A	GROUND AMPLIFIER	Т	ΤŪ	MOT	MR62	GSE	33		0	i		
1	220539		1	NUT PLAIN CAP	1	lυ	MOT	MR62	GSE	33		0	!		
H	220547		╁	NUT PLAIN CLINCH	1	ΙŪ	MOT	MR62	GSE	33		0		T	
	220628			NUT PLAIN PHASE DET	1	lu	мот	MR62	GSE	33		0			
-	222846		+	NUT HEX PLAIN X	$^{+}$	ΙŬ	MOT	MR62	GSE	33		0		1	
1	223228	1		NUT CLINCH R ANGLE		Ιū	MOT	MR62	GSE	33	1	0			
4	322786		+-	SCREW TUNED CAVITY	$^{\dagger}$	tū	МОТ	MR62	GSE	33		0			
1	322793	ľ	1	SCREW CONTACT		lu		MR62	GSE	33		1 0			
-	322795		t-	SCREW PLATE CAVITY	T	Ιŭ		MR62		33		0			
	322845			SCREW TUNER CAVITY		lü	МОТ	MR62	GSE	33		0	}		
-	720572		+	BRACE SIDE RH OSC	+-	۱ŭ		MR62		33		O			
	720573			BRKT PW SLIDE LH		Ιŭ		MR62		33		0			
-	720575		+-	BRKT LWR CHASSIS SUP	, 🕇	١ĭ	MOT	MR62		33		0			
			1	BRACE SIDE LH OSC		1,		MR62		33		. 0	1		
_	720578		+-	BRACKET BATTERY	+	Ιŭ		MR62		33	+	1 0			
	720583 720596		1	GUSSET CHASS XPONDER	,	III.		MR62		33		l o		İ	
_		+	+	BRACKET TRANSFORM MT		Τŏ	+	MR62	<del>,</del> -	33		0			
	720597			SUPPORT BOLOMETER		10	MOT			33		0		1	
	720598		+		+	10		MR62		33	<del>                                     </del>	Ŏ	1		
	720599			SUPPORT DIRECT COUPL	١.	10		MR62		33		0		1	
	720610		+	BRACKET POWER CORD	+	44					++-	0			
	720629		1	MOUNT COIL		10		MR62		33		0		1	
	720630		+-	BRKT PW SUPPLY VERT	+	14		MR62		33		1 8			
	720641			SUPPORT RE LOAD		1.				33		0			
	720643		+-	SUPPORT CABLE PWR	+	ļ		MR62		33		+ 5	-		
	720645	1	1	BRACKET CHASSIS		u				33	1 1	0	1		
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	720648	IA	1	SUPPORT CHASS PW MTR	۲1	ΙU	IMOT	MR62	JUSE	33	;	0	1	1	

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U MOT MR62 GSE NEXT ASSEMBLY # TINDOR ---DRAWING NO. SUPPORT ATTENUATOR 720663 A BRKI INSUL STRIP NJE BRKI MI TRANSPONDER BRKI MI MONITOR LH BRKI MI MONITOR LH BRKI MI TRANSPONDER GUSSET CHASS XPONDER 720666 A 720673 A 720676 A 00 720677 720680 A 722762 A 722764 A 722765 A GUSSET CHASS XPONDED SIDE FRAME CHASS SIDE FRAME CHASS SUPPORT PLATE CHASS BRACKET INSULATING SIDE FRAME CHASS SUPPORT PLATE CHASS 0 33 0 722766 A 722776 A 722766 0 722799 SUPPORT PLATE CHASS
SIDE FRAME CHASS
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SUPP FREG MULT-REAR
BRKT MOUNT BERT 722802 U MOT MR62 GSE U MOT MR62 GSE 33 33 0 722829 A U MOT MR62 GSE U MOT MR62 GSE U MOT MR62 GSE 722840 A SUPPORT VARIABLE 722849 A 722850 A U MOT MR62 GSE
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U MOT MR62 GSE SUPP FREQ MULTIPLIER SUPP DIRECT SUBASSY SOLDER SILVER NICKEL INSULATING STRIP 0 0 1020664 A 1420665 1420667 SHIELD TERM BOARD INSULATING STRIP 1422790 INSULATOR BUSHING G INSUL CRYSTAL UNIT 33 1423239 A 1423981 A INSULATOR BUSHING HOLDER CRYSTAL UNIT 1423981 A BOX FILTER
COVER ACCESS ELECT
COVER OSCILLATOR
COVER ACCESS ELECT 1520534 A 1520550 A 1520559 A 33 33 33 1520606 A 1520652 A 1520655 A 1520661 A BOX VCO BLAS COVER ACCESS REF GEN 33 0 COVER VCO CONTROL COVER SHIELD CIRCUIT COVER SHIELD DISTRI 1520671 A 1520675 A 33 33

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	.522741	8	A	POWER SUPP MODIFICIN	Г	U	MO:	MR62	G S E	33			0			
	1522742	В	A	POWER SUPP MOD		lu.	MOT	MR 62	GSE	33		1 1	0			1
	1522791	A	T	SHELL DIODE		U	MOT	MR62	GSE	33			0			1
	1522804	Α		COVER SW SHIELD	ļ	lu.	MOT	MR62	ű5E	33		1 1	0			
_	1522805	A	1	SHELL CAVITY X7		u	MOT	MR62	GSE	3.3		1	0			+
	1522847	A	1	COVER XMITTER SUBASY				MR62		33			ō I		ı	
_	1522859	A	T	COVER ELECT CONNECTR	Т	U	MOT	MR 62	GSE	3.3	_		0			-
	1523220	Α		COVER ACCESS CONN		IJ	MOT	MR62	GSE	33		1 1	0		1	
_	1523227	Α		COVER FRED SHIFTER	П	111	MOT	MR 6.2	GSE	2.3		1	0			1

1522791   A	1.022/4			THOMEA SONE MODIFICIAL				MR62		33	i i	1 0	1	i :	1
52280-4 A			^_							33		0	1		!
1522805	152279	1 A		SHELL DIODE	T I	J	407	MR62	GSE	33		0			
1522847   A	1.52280	+ A		COVER SW SHIELD	LΙ	۱۱۰	TOM	MR62	GSE	33	- !	0			1
1522857   A   COVER FALTER SUBASY   U   MOT   MR62   GSE   33   O     1522859   A   COVER ELECT CONNECTR   U   MOT   MR62   GSE   33   O     1523227   A   COVER ECCESS CONN   U   MOT   MR62   GSE   33   O     1523227   A   COVER FRED SHIFTER   U   MOT   MR62   GSE   33   O     1523227   A   COVER FRED SHIFTER   U   MOT   MR62   GSE   33   O     1523229   A   COVER FRED SHIFTER   U   MOT   MR62   GSE   33   O     1523231   A   COVER RECEIVER   30MC   U   MOT   MR62   GSE   33   O     1523231   A   COVER RECEIVER   AM   U   MOT   MR62   GSE   33   O     1523233   A   BOX   LOOP   FILTER   U   MOT   MR62   GSE   33   O     1523233   A   BOX   COVER   RECEIVER   D   MOT   MR62   GSE   33   O     1523233   A   BOX   FILTER   U   MOT   MR62   GSE   33   O     1523221   A   BOX   FILTER   U   MOT   MR62   GSE   33   O     1523233   A   DRAWER   U   MOT   MR62   GSE   33   O     1620527   A   CABINET   DUAL   U   MOT   MR62   GSE   33   O     1620528   A   DRAWER   U   MOT   MR62   GSE   33   O     1622528   A   DRAWER   U   MOT   MR62   GSE   33   O     1622529   A   SHELF   SELECTION   U   MOT   MR62   GSE   33   O     1622529   A   SHELF   SELECTION   U   MOT   MR62   GSE   33   O     1622529   A   SHELF   SELECTION   U   MOT   MR62   GSE   33   O     1622529   A   SHELF   SELECTION   U   MOT   MR62   GSE   33   O     2620554   A   PIN   GROCVED   U   MOT   MR62   GSE   33   O     2620554   A   SHIELD   CKT   BREAKER   U   MOT   MR62   GSE   33   O     262056   A   SHIELD   CKT   BREAKER   U   MOT   MR62   GSE   33   O     2622761   A   SHIELD   TERM   BD   PW   U   MOT   MR62   GSE   33   O     2622764   A   SHIELD   TERM   BD   PW   U   MOT   MR62   GSE   33   O     2720544   A   CHASSIS   VCO   MULTIPLR   U   MOT   MR62   GSE   33   O     27205552   A   POWER   SUPPLY   NJE   U   MOT   MR62   GSE   33   O     2720556   A   CHASS   RFF   SIG   GEN   U   MOT   MR62   GSE   33   O     2720561   A   CHASS   NARROW   BAND   U   MOT   MR62   GSE   33   O     2720571   A   CHASS   NARROW   BAND   U   MOT   MR62   GSE	152280	Ā	$\neg$	SHELL CAVITY X7		J N	MOT	MR62	GSE	33		0			
1322859   A	152284	7 IA		COVER XMITTER SUBASY	H	ه ا ن	1 OM	MR62	GSE		- 1				
1523220 A	152285	J A									-		+		-
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2220545 A														1 1	1
2620656 A			-										-		·
2620670   A   SHIELD CKT BREAKER   U MOT MR62   GSE   33   O   O											i		1		ĺ
2620674 A   SHIELD CKT BREAKER   U MOT MR62 GSE   33   O			+										+		-
2620681 A											1		-		
2622761   A   SHIELD TERM BD PW   U   MOT   MR62   GSE   33   O     2622774   A   SHIELD SWITCH   U   MOT   MR62   GSE   33   O     2720540   A   POWER SUPPLY NJE   U   MOT   MR62   GSE   33   O     2720544   A   CHASSIS VCO   MULTIPLR   U   MOT   MR62   GSE   33   O     2720548   A   CHASSIS VCO   MULTIPLR   U   MOT   MR62   GSE   33   O     2720552   A   POWER SUPPLY C-280M   U   MOT   MR62   GSE   33   O     2720556   A   CHASS   ELECT   EQUIP   U   MOT   MR62   GSE   33   O     2720557   A   CHASS   GSE   CHASS   GSE													+		-
2622774   A   SHIELD SWITCH   U MOT MR62   GSE   33   O			j										1		
2720540 A   POWER SUPPLY NJE   U MOT MR62 GSE 33   O													-		
2720544   A   CHASSIS VCO MULTIPLR   U MOT MR62   GSE   33   O   O   O   O   O   O   O   O	1 1 '	- 1	-		1 1										ĺ
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2.720552 A											- 1				
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2720574 A   CHASS FREQ COUNTER   U MOT MR62 GSE 33   0			- +-												_
2720581 A CHASS VCO 33MC   U MOT MR62 GSE 33   0											- 1			!	ĺ
											i_			I	<b>!</b>
I 1272058ATA I ICHACC COMA D.E. I INIMOTIMBADIGCE 144 I i I o I I I I I I			1							1 1	- 1			i l	ĺ
			_1.	CHASS CONN R.F.						53.		0	↓		_
2720589 A										1	- 1				
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## JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARINER R62 GSE NUMERICAL BY DIV

DATE LISTED 4-12-63

	DRAWING NO.	841H	6 to 1	TITLE		1577	*****	96 L 4	41144	1657.		TASE TE	DRAWING CONTROL	NEXT	Т
-		No.	5.5		1	3	1402	\$14741	1 HPD 14F.	D+ V.		Ye	STATUS	 ASSEMBLY	Ĺ
	2720593			CHASSIS OSCILLOSCOPE		U	MO:	MR 6.2	GSE	33	ĺ		0	1	
	2720594			CHASSIS XFORMER	<u> </u>	Ų		M5.62		33	L		0	 l	
	2720595		1	CHASS XPONDER	Į	IJ	MOT			33	1		0		
	2720613	A		CHASS AMPLITUDE DET	l _	IJ		MR62		33			0	l	
	2720644	Ą		CHASSIS ELEC EQUIP	1	Ü	MC*	MR52	GSE	33			0	1	
	2720653	Α		CHASS 3MC PH DET		U	MOT	MR 62	GSE	33	]		0		
	2122191	Α	1	CHASS FREG MULTEMOD	T	U	MOT	MR 6.2	GSE	33	,	1	0		_
	2722798	A	1	CHASS XMTR SUBASSY		U	MOT	MR62	GSE	33	ļ	1	0		
	2723982	A	1	CHASS CONN 3 MC&DET	1	Ü	MOT	MR 62	GSE	33			3	 	_
	2723983	Α	1	CHASS CONN PHASE DET		U	MOT	MR 62	GSE	33	1		0		
	2723984	A		CHASS CONN AMP DET	1	U	MOT	MR 62	GSE	33			0		_
	2723985	А		CHASS CONN 30 MC		U	MOT	MR62	GSE	33	1		0	1	
	2723986	Ā	1	CHASS CONN REF SIGN	1	U	MOT	MR62	GSE	33			0	 1	
	2723987	Α		CHASS CONN 3 MC VCO		U	мот	MR62	GSE	33			0		
	2723990	A	t	CHASS CONN MIXER	t	U	MOT	MR62	GSE	33			0	 	_
	2724087	Α		CHASS ISO AMP D.C.		u	MOT	MR62	GSE	33	1	!	0		
	2724087	Α	-	CHASSIS ISO AMP DC	$\vdash$	ū		MR62		33	_		0	 · · · · · · · · · · · · · · · · · · ·	-
		A		CHASS ISO AMP		ŭ		MR62		33		;	ŏ		
	2724088	A	+-	CHASSIS ISC AMP	1	III		MR62		33		!	ō		-
	2724089			PLATE MTG AMP D.C.		Ιŭ		MR62		33		!	o I		
	2724089		+	PLATE MTG AMP DC	t	lü		MR62		33		-	0	†	-
	2724090			PLATE MTG AMP A.C.		1 -		MR62		33		1	ŏl		
	2724090		+	PLATE MTG AMP AC	┼—	tŭ		MR62		33		1	ő	 <del> </del>	-
	3120649		1	TERMINAL BOARD	İ	1 -	1 -	MR 62		33		1	ő	ł	
	3120668		⊢	TERMINAL BD TRANSPON	┼-	tü		MR62		33	<del>-</del>		ŏ	 <del> </del>	-
	3122854		1	TH LOOP FILTER	İ	1 -		MR 6 2		133		1	0		
	3122854		⊢	TH LOOP FILTER UPPER	<del> </del> −	U		MR62		133	-		3	 <del> </del>	-
	3122855		1	TB LOOP FILTER LOWER	1	1 -	1	MR 52		33	ł		· 6		
_		Α	+-	TB 30 MC PHASE DET	╁╌	ű			GSE	33	+ -		- 6 - 1	 <del> </del>	-
	3123222		1	TERMINAL BOARD		Ш		MR62		33	1	1	ă I	1	
	3123223		⊢	TB 3 MC PHASE DET	<del> </del>	H		MR62		33		<del>                                     </del>	0	 <del> </del>	-
	3123224		1	TB DIFF AMPL		ľ		MR62		33	1	1	0	1	
	3123989		<del> </del>	TBAMP DET	$\vdash$	H		MR62		33	+	+	0	 	-
	3422777		1	DIAL CONTROL	1	IX.		MR62		33		i	0	1	
			$\vdash$	PLUG RESISTOR RET		14				133	-		0	 +	-
		A	1		Ì	U	1	MR 62			ł	1	_		
_		Α	ļ	COND SECTION TUNED	₩.	U			GSE	133	ļ	<del>!</del>	0	 +	
	3922789			CONTACT ELECT CAVITY	1	U	_	MR 62	GSE	33			0		
_	3922796		1_	CONTACT ELECT DIODE	ļ	U		MREZ		33	<u> </u>	$\vdash$	<u> </u>	 <del> </del>	_
	3923236	A	1	CONTACT ELECTRICAL	1	U	MO.	MR 6.2	16SE	33	i .	: 1	0	1	

\* DENOTES CHANGE TO PREVIOUS LIST JPL 0513 JUNE 61

	RAWING		c 4	CALIFORNIA INS MARINER F									PAGE	17	4-12-6	_
1	DRAWING NO.	94.9H	31	TITLE	1		TETTO E	****	4E FOR	ster.	41	CAST (7)	DRAWING CONTROL STATUS		MEXT	
-	4220542	Δ	-	RETAINER TURNLOCK	-	U	MOT	MR62	GSE	33	×c.	10.	0		+	+
	4220660			RETAINER PACKING		ΙŭΙ	MOT		GSE	33		1	ă l			
-	4222768	_	1	HOLDER SEMICOND DEV	-	Ŭ		MR62		33			<del>-</del>			+
	4222856		1	CLAMP LOOP		ŭ		MR62		33			ŏ			ı
-	4224098	_	┰	CLAMP CABLE	$\vdash$	ŭ			GSE	33			- <del>ŏ</del> -		<del>                                     </del>	+
	4224098			CLAMP CABLE		li l		MR62		33			ŏ			1
_	4320551	Â	╁	NUT SPACER PLATE	├	Ü	MOT	MR62	GSE	33		$\vdash$	<del>- ĕ -  </del> -		<del> </del>	+
	4320555		ŀ	SPACER FREQ CONVERTE		1 - 1		MR62		33			6		i	-
			↓		⊢	Ľ						$\mapsto$			ļ	4
	4320582	1	1	SPACER BATTERY BRKT		U	MOT	MR62	GSE	33		i	0		1	-
_	4320586		+	SPACER PHASE SHIFTER	_			MR62		33			0			4
	4320679		ı	SPACER PANEL NJE 55	1	U		MR62		33			0		1	1
_	4322782	_	1	ALIGNMENT DEVICE	_			MR62		33	L		0		<u> </u>	4
	4322788	1	1	SLEEVE CAVITY		U		MR62		33			0		1	1
_	4322803		丄	SPACER SNAPSLIDE	L			MR62		33			0		L	1
	4322857		1	SPACER SLEEVE TERMNL		U	MOT	MR62	GSE	33		1 1	0			ı
	4322858	A	1	SPACER THREADED TERM		UΙ	MOT	MR62	GSE	33		1	0		i	1
_	4323225	A	Т	SPACER TB		U	MOT	MR62	ĞSE	33			5			1
	4323238	Α	1	SPACER SLEEVE DIODE		u	MOT	MR62	GSE	33		!	0		!	1
	4520603	Α		SLIDE IN CHASS TRAK	_	Ü	MOT	MR62	GSE	33			0		1	1
	4620543	l A		STUD TURNLOCK FAST		lυ	MOT	MR62	GSE	33		1	0			1
	4620577	A	T	STUD TRANSPONDER MT		U	MOT		GSE	33			ō	•	t e	†
	4620604		1	STUD EXT CRYSTAL FIL		ū	MOT	MR62		33		ĺ	ō l		1	1
_	4620662	_	$\vdash$	BLOCK VARIABLE ATTEN	$\vdash$	ŭ	MOT	MR62	GSE	33		-	ō			†
	4720567			ROD CIRCUIT BREAKER		انا		MR62		33		1	ŏ			١
_	4720592		+	BAR SLIDE MOUNT	$\vdash$	U		MR62	GSE	33		-	ŏ		+	+
			1	BAR CLAMPING		ü				33					1	1
_	4720600		┿╌		_	-			GSE	33		-	<u> </u>		<del>                                     </del>	+
	4720639		1	SHAFT SWITCH		- 1		MR62					0		1	-
_	4722852	_	₩	BAR CLAMPING XMTR	$\vdash$	U		MR62	_	33		-	0			+
	4920532	1''	1	RETRACTOR CABLE		U		MR62		33			0			1
	4922785		╄	DISK CAVITY CENTER		U			GSE	33			0		<u> </u>	4
	5424086			PANEL CONNECTOR		- 1		MR62		33	:		0		1	1
_	5520530		ļ_	HANDLE LOCK	_	ш		MR62	GSE	33			0			1
	5520531			HANDLE LOCK & TRIGR		U		MR62		33			0		1	1
	5823980	_	_	ADAPTER CONNECTOR		U		MR62		33		-	0		1	1
	5920533			FAN EXHAUST		U	MOT		GSE.	33	1		0		1	1
	6224081		L.,	PANEL FRONT	L	U		MR62		33			0		L	1
j	6322808	A	1	SCHEM XMITTER TEST		U	MOT	MR62	GSE	33			0		1	T
j	6322809	Α	L	SCHEM FREQ MULT&MOD	L	U	MOT	MR62	GSE	33		L_	0			1
Ĵ	6322810	Α		SCHEM RECEIVER TEST		υ	MOT	MR62	GSE	33			0			T
į	6322811	A	1	SCHEM RADIO RECEIVER		lυl	MOT	MR62	GSE	33		: 1	0		I	1

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	DRAWING NO.	9AEE	4 :	TITLE	1	3	76 R004		THE TER.	DEST.		TE.	DRAWING CONTROL STATUS		HEXT ASSEMBLY	
7	6322812	A		SCHEM 14MC RF OSC	1	U	MOT	MR62		33		1	0			1
	6322813		L	SCHEM OSC RF 33 MC	L	<u>U</u>		MR62		33			0			
	6322814	A	I	SCHEM AMPL DET RF		U	MOT	MR62	GSE	33			0			
_		A		SCHEM PHASE DET RF		U	MOT	MR62	GSE	33			0			
- 1	6322816		П	SCHEM AMPL INTMED	1	Ū	MOT	MR62	GSE	33			0			
١	6322817	Α	į	SCHEM FREQ CONV	L	U	MOT	MR62	GSE	33			0		1	
٦	6322818	A		SCHEM REL CONV	Г	Ū	MOT	MR62	GSE	33			0			
1	6322819	Α	1	SCHEM COHERENT FREQ	L	Įυ	MOT	MR62	GSE	33			0		ļ	
٦	6322820	A	П	SCHEM OSC RF 3MC VCO	Г	ĮŪ	MOT	MR62	GSE	33			0		T	
	6322821		<u> </u>	SCHEM 33 MC MIXER	L	U	MOT	MR62	GSE	33			0			
1	6322822	Α		SCHEM PH DET 3 MC		U	MOT	MR62	GŞE	33			0			
ı	6322823	Α	]	SCHEM NETWORK PHASE		U	MOT	MR62	GSE	33			0			
T	6322824	A	I	SCHEM GENERATOR REF	П	Ū	MOT	MR62	GSE	33			0			
١	6322825	Α		SCHEM MONITOR TEST		lυ	мот	MR62	GSE	33		!	。 I		1	
7	6322826	A		SCHEM MOUNT XPONDER	Г	Ü	MOT	MR62	GSE	33			ō		† ··· · · · · · ·	_
١	6322827	Α	1	SCHEM XPONDER MOUNT	Į	lũ	мот	MR62	GSE	33			ا ہ		1	
1	6323232	A		SCHEM AM MODULATOR	Η-	ΙŪ	_	MR62		33			0		<b>†</b>	
١	6323506	A		SCHEM 30 MC TEST OSC	1	Ιŭ	мот	MR62	GSE	33			ō I		]	
7	6323585	A		SCHEM-14 MC RF OSC	1	ΙŬ		MR62		33		-	ō		<del>                                     </del>	_
1	6324103	A		S/C TEST ADAPTER	ĺ	Ιũ		MR62		33			o l		1	-
-+	6324104		$\vdash$	MONITOR SIG INTCON	Г	Ιŭ		MR62		33			o		† · · · · · · · ·	
	6324105			DUAL D.C. AMP 5A1A1		lŭ		MR62		33		1	ŏ			
-	6324106	_	$\vdash$	DUAL A.C. AMP 5A1A3		ŭ		MR62		33			ō			_
- 1	6324107			R.F. SIGN INTCON 5A2	l	, -		MR62		33		1	ŏ l		1	
	6325457		В	SHAPER SCHEMATIC	t	ŭ		MR62		33	-		ŏ l		<del> </del>	-
ŧ		В	Ā	WORD COUNTER SCHEM	1	ŭ		MR62		33			ŏ			
+	6325459		В	MONOSTABLE SCHEMATIC	H	Ŭ		MR62		33			ŏ		<del> </del>	-
- 1	6325487	_		CHOPPER DEM DR SCHEM		ŭ	•	MR62	-	33			ŏ			
-		8	A	LIMITER SCHEM	1	Ŭ			GSE	33		-	0		<del> </del>	-
	6325489		1	CHOPPER DEM SCHEMATC				MR62		33			0			
_	6325529	_	A	J-K-T SCHEM FLIP FLP	-	ŭ		MR62		33	-	-	ŏ		<del> </del> -	-
- 1		В	lc	MODULATOR LIMIT SCHM		U		MR62		33			ŏ			
	6325552		-	LIMITER OPUT SCHEM	-	ŭ		MR62		33	-	-	ŏ			4
	6325553		1 1	COMMAND MODULT SCHEM		ΙÜ.		MR62		33			ă			
_1		8		SUMMING AMPL SCHEM	-	Ü		MR62	GSE	33			- 6 -		t	-
- 1		В	1 1	COMMAND MOD SCHEM	ı	l.		MR62		33			ŏ			
_		В	1	COMMAND MOD SCHEM	-	5		MR62	GSE	33			<del></del>		<del> </del>	-
- 1		8		SCHEM JK/T FLIP FLOP	l	1 -							0			
					⊢	U		MR62		33					ļ	-
	6325558 6325559	B	1 1	MONOSTABLE SCHEM SCHEM TRL GATE C	İ	U.	MOT	MR62		33			0		l	

\* DENOTES CHANGE TO PREVIOUS LIST

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				JET PR	O P	U	LSIO	N LA	BORA	TOR	Y					
				CALIFORNIA INS	TIT	UTE	OF TEC	HNOLOGI	r, PASADI	ENA, C	ALIF.				DATE LISTE	<u> </u>
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Γ.		DASR	140		1.	2	74 = 34 3		ME FOR	4142.	*141		DRAWING		NEXT	ź
I	DRAWING NO.	80.	15	TITLE	1	3	6008	BEPIAL	7 MEU ET 8.	B17.		77	STATUS		ASSEMBLY	ŧ
	6325560	В	В	SCHEM TRL GATE D	Г	U		MR62		33	П		0			T
١.	6325561	В	В	SCHEM POWER DRIVER		Ü	MOT	MR62	GSE	33			0			
Г	6325562	В		SCHEM LAMP DRIVER		v		MR62		33			0			
	6325564	В	В	SCHEM TRL GATE A	1	U	MOT	MR62	GSE	33	L		0			L.
	6325565	8		SCHEM TRL GATE B		U	MOT	MR62		33		ĺ	0			
	6325566	8		SCHEM EMIT FOLLOWER	1	U		MR62		33			0			
	6325567	8	В	SCHEM EMIT FOLLOWER	Г	Ü	MOT	MR62	GSË	33			0			
	6325568	В		SCHEM INVERTER	<u> </u>	U			GSE	33			0		<u> </u>	$\perp$
	6325569			SCHEM POS LOGIC LEVL		U		MR62		33		- [	٥		ĺ	1
	6325570			SCHEM NEG LOGIC LEVL	L			MR62		33		_	Q			↓
	6325579			UNIVERSAL BD SCHEM 2	l			MR62		33		- 1	0			ŀ
L	6325580			SCHEM LINE AMPL	<u> </u>			MR62		33	Li		0		<b>.</b>	↓_
ı	6325589			SCHEM POWER TURN ON	ł	U	MOT			33		İ	o o		1	Ĺ
	6325590		Α	SCHEM SW29&SCOPE	١_			MR62		33			0		<b></b>	1
н	6326594	-	İ	SCHEMATIC CONVERTER	l	U		MR62		33		1	0			
Ц	6420553		L.	PLATE MOUNTING PLAIN	1_	-		MR62		33	$\sqcup$	<b>→</b>	0			╀-
	6420558		l	PLATE MOUNTING	l	U		MR62		33	[		0		i	1
Щ	6420560		┺	PLATE MOUNT 30 MC	辶	υ		MR62		33			0			┷
	6420564	A	i	PLATE MOUNT IF AMPL	]	U		MR62		33		- 1	0		İ	1
_	6420565		ㅗ	PANEL POWER	⊢			MR62		33	<b>├</b> ─∔		<u> </u>			╄
	6420568		1	PANEL POWER MONITOR	1	U		MR 62		33		- 1	0		1	1
L	6420570		╄	PANEL FRONT XMTR	Ŀ			MR62		33			0		<del></del>	╄-
	6420576	Α	i	PANEL CONNECTOR	l			MR62		33		- 1	o i			
	6420579	Α	_	PLATE MOUNT REF SIGN	┖	U		MR62		33	L ↓		0		<b></b>	_
	6420580	l		PLATE MOUNTING 3 MC	l			MR62		33		- 1	0		1	
Щ	6420585		ļ.,	COVER CONN RF SHIELD	┞			MR62		33	<u> </u>		_ 0		<del></del>	╀
	6420588			PANEL FREQ SHIFTER	l	Ų		MR62		33			0		i	1
L.	6420588		⊢	PANEL COHERENT FREQ	┞-		-	MR62		33	<del>∐</del> -i	$\dashv$	0		-	+
1	6420591		l	PANEL INDICATOR	Ì	U	MOT	MR62		33			0			1
┡	6420601	<u>A</u>	⊢	PANEL PW SW XPONDER	╀	U	MOI	MR62		33	$\vdash$		<u> </u>		ļ	₩
1	6420601			PANEL PWR DISTRIBUTE	l	-		MR62		33		- 1	0			1
⊢	6420602		╁	PANEL CONNECTOR	⊢	U.		MR62		33	<del>                                     </del>		0			┰
	6420607		Ĺ	PLATE MOUNT VCO 33MC	l	U		MR62		33			0		1	1
⊢	6420608		⊢	PLATE ATTENUATOR MT	⊢	Ų		MR62		33	$\vdash$	$\dashv$	0		<del></del>	+
1	6420609		1	PANEL FRONT XPONDER PANEL BLANK RECEIVER	l	Ü		MR62		33		- 1	0			1
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İ	6420612		İ	PANEL XPONDER MARK	l	1 -		MR62		33		- 1	ő			1
⊢	6420614		⊢		⊢	U	_				$\vdash$	_	0	<u> </u>	<del> </del>	+
l	6420617			PLATE MOUNT PLAIN PANEL ENGRAVED FREQ	l	ı –		MR62		33		1	0		ĺ	
ı	6420638	I A	1	IPANEL ENGRAVED FREG	ı	U	IMUL	MR 62	いっちた	33		1	U		1	F

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CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.

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.	DRAWING NO.	****	42	TITLE		1	*****		1 1 T I W			TASE	DRAWING	NEXT	Т
	DRAWING NO.	mo.	3 3	11766	5	3	COBE	824144	-	819.	wo.	Ye.	CONTROL STATUS	ASSEMBLY	
	6420640	Α		PLATE SUPPORT		U	MOT	MR62	GSE	33			0	-	T
	6420642			PANEL RECEIVER		U	MOT	MR62	GSE	33			0	ļ	- 1
	6420650	A		PLATE MOUNT SWITCH		U	MOT	MR62	GSE	33			0		7
	6420651	A		PLATE BOX VCO BIAS	l	U	MOT	MR62	GSE	33			0		١
٦	6420658	A	П	PANEL BLANK MONITOR		U	MOT	MR 62	GSÉ	33			0		ℸ
1	6420659	Α		PLATE RET SHAFT		U	мот	MR62	GSE	33	1		0		
	6420669	Α .	Н	PLATE MOUNT FREQ	_	U	мот	MR62	GSE	33			0	 	٦
	6420672	Α		PLATE RETAINING DRAW	ļ	U	MOT	MR62	GSE	33			0	1	
	6420682	A	Н	PANEL IND HP	Н	U	MOT	MR 62	GSE	33			0	 	1
	6422760	Α		PLATE MOUNT SHIFTER	l	ĺυ	MOT	MR62	GSE	33			0		
_	6422784	A	П	PLATE CAVITY END	Г	ĺυ	MOT	MR62	GSE	33			0	 	٦
	6422794	Α		PLATE CAVITY TOP	Ι.	lυ	мот	MR62	GSE	33			0	ŀ	
	6422801	A	-	PLATE CONNECTOR XMTR	Т	Ū	MOT	MR62	GSE	33			0		_
	6422844	A		PLATE FREQ SUBASSY	l	lυ	МОТ	MR62	GSE	33			0		
7	6423226	Ā	Н	PLATE MOUNT PH DET	Н	Ū		MR62		33		_	0		_
	6423235	Α	!	PLATE MOUNTING AM	l	lū	MOT	MR62	GSE	33			o l		
-	6423988	A	Н	PLATE MOUNT RECEIVER	Н	Ū	MOT	MR62		33			0	 	_
	6424080	A		PANEL RF SIGN		Ιŭ	мот	MR62	GSE	33			ō	ŀ	
-	6424080			PANEL RF SIGN	Н	ΙŪ		MR62		33	_	-	ō	 	-
	6424082			INSULATING BOARD		Ιŭ		MR62		33			o l		
Н		A		INSULATING BOARD	_	ŭ		MR62		33			Ö		_
	6424084			COVER BOX MGC BIAS		١й		MR62		33			ŏ	ı	
-	6424084		-	COVER BOX MGC BIAS	┝	υ		MR62		33	$\vdash$	<del></del>	ŏ	 	_
	6424086			PANEL CONNECTOR	l	lű.		MR62		33			ŏ		
-	6424091		H	BASE MONITOR SIG	⊢	Ιŭ		MR62		33	-		ŏ	 	-
	6424091			BASE MONITOR SIGN	l	ŭ		MR62		33			0		
+	6424095		Н	BASE R.F. SIG	⊢	Ιŭ		MR62		33		Η	l ă	 <del>                                     </del>	-
	6424095			BASE RF SIGN		Ιŭ		MR62		33			a	ı	
-	6424096		Н	PANEL SPACER	Н	lŭ		MR62		33	$\vdash$	-	ā	 	┪
	6424096			PANEL SPACER		Ιŭ		MR62		33			ŏ		į
-	6424097			PLATE MTG COAXIAL	╁	ΙŬ		MR62		33	-	$\vdash$	ŏ	 	٦
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۲	6424100			PLATE ACCESS	-	Ιŭ		MR62		33			Ö		_
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	6424100			PLATE ACCESS	-	Ŭ		MR62		33	-		6	 <del> </del>	_
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	6424101			PLATE SPACER SW PLATE FILTER MOUNT		Ņ.		MR62		33			<del> </del>	 	-
	0424220	A	1	890/960 CONVERTER	ŀ	U		MR62		33			0	1	

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į	DRAWING NO.	845H	1:	TITLE	3	CLASS	VENDOR	9410	11 for	1 214P.		7.6	DRAWING CONTROL		NEXT	9
_	6922807		F	BLOCK DSM P.D RAD	ř	Ü	MOT	MR62	GSE	3.9	Wr.	- 1.	STATUS		731-011	. 5
	6925530			SYN TELEMETRY		Ĭŭ.		MR62		3 ,			9		1	İ
	6925531			BIT COMPARATOR LOGIC	-	Ū	MOT	MR62		33			2		<del> </del> -	+
	6925532			ADDRESS MONITOR	1	Ĭŭ.		MR62		33			o I		l	
	6925533			CC&S MONITOR LOGIC	İΤ	Ιŭ	ма	MR62		33	~		0			$^{+}$
Н	6925534	8		TIMER SUBASSY LOGIC	1	ľů	MOT	MR62		33		ļ	ŏ		i	
Н	6925535	8	A	WORD GENERATOR LOGIC	1	Ū	MOT	MR62		33			0		<del> </del> -	+
Н	6925541	В	C	COMMAND MODULATOR		U	MOT	MR62	GSE	33			5		1	
_	6925581	В		DYNAMICS AMPLIFIER	1	Ü	MOIT	MR62	GSE	33			0			1
0	6925586	<u></u>		TEST HARNESS CABLES	L	U	MOT	MR62	GSE	33			S			1
	6925587			ISOLATION AMPL CONN	Ī	Ū		MR62		33		1	0			T
_	6925588			ISOLATION AMPL CONN	L_	U		MR62		33			0			
D	6925591			CABLE HARNESS INST	ļ	U		MR 62		33			O .			Т
	7520605			CUSHION COVER	_			MR 6 2		33		[				1_
	8422680			PRINTED WIRING PLAIN	1	U		MR62		33			٥			
_	8422681			PRINTED WIRING PLAIN	_			MR62		33			C		L	1
	8422682			PRINTED WIRING PLAIN	İ	U	MOT	MR62		33			C		1	
_	8422683			PRINTED WIRING PLAIN		Ų		MR62		33			_0		ļ	4
	8422684			PRINTED WIRING PLAIN		U		MR62		33			0		[	1
_	8422685			PRINTED WIRING PLAIN PRINTED WIRING PLAIN	-	U		MR62 MR62		33			<u> </u>			+
	8422698			PRINT WIR MONOSTABLE		U		MR62		33	- 1		0 0			1
_	8422858			PRINTED WIRING PLAIN	$\vdash$	U		MR62		3.5		+	0			+-
	8425450			PRINTED WIRING PLAIN		U		MR62		33	- 1		ő		1	1
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•	DRAWING NO.	B + 1 pt	4 5	TITLE		;	74 ×541		61 FOR	*151.	21. EASE 2174	DRAWING	 NEXT	3
	DARWING NO.	40.	2 2		å	3	C096	Marie	THEY SEP.		we 110	STATUS	ASSEMBLY	
	105201			CONNECTOR ADAPTER		U,	JP.	MR 6.2	G\$E	34	11 61			1
	105262			WRENCH PRESSURE SW	Į .	U	JPL	MR52	GSE	34	11 61	J	1	
_	105226			SENSORGVALVES	Г	U	JPL	MR62	G5E	34	11 61	J		
	105228		D.	SENSORGUALVE PANEL		U	JPL	MR62	GSE	34	12 61	U.		İ
	105229		0	M/C PANEL IN WIRE		U.	JPL	MR 62	GSÉ	34	01 62	7	 <del>                                     </del>	
	105231		В	ATT CONT SYRO PANEL	ı	Ų.	JPL	MR 6.2	GSE	34	07 61	ل	1	ı
_	105237		В	GYRO MONITOR PHA		Ü	JPL	MRS2	GSE	34	12 62	J	 	+
	105238		A.	GYRO MONITORGANT PNL		U	JPL.	MR 62	SSE	34	12 62			
	105239		Г	MANEUVR MONITOR PAL	T	Ü	JPL	MR 62	GSE	34	10 62	J		+-
	105240		i '	MANEUVR MONITOR PNL		U	JPL	MR 62	SSE	34	10 62			
	105241	-	В	MANEUVE MONITOR PNL	Т	U	JPL.	MR62	GSE		12 62	J	-	+-
	105282			A/C SYS TEST CONSOLE		lυ	ا⊆ل	MR62	GSE	34	12 62	j l		ŀ
_	105283		-	AZC SYS TEST CONSOLE	┢	Ū			GSE	3.4	12 62	j l		+-
	105288			CB788 MANEUVER MONTR		ú	JP[	MR62		34	02 62	1		
	105289		Α	CB#6 MANEUVER MONITE	-	Ŭ		MR62		34	02 62	Ĵ		+-
	105296			CB3 MANEUVER MONITOR		ŭ		MR62			02 62	ŭ.		
_	106314		Н	PRESSURE SW ADAPTER	⊢	Ü			GSE	34	11 61	- <del></del>		+
	136902			A/C TEST BOX		ŭ		MR62			02 62	ĭ		
_	106903		Н	A/C TEST BOX DETAIL		ü		MR 62		34	02 62	- <del>j</del>	<del>                                     </del>	+
3	113350			HOLDER SUN SENSOR		lu l		MR62			10 60	٠	1	
5	113351			SHIELD TEST SUN SENS	-	Ü	JPL		GSE	34	01 61	J	<del> </del>	+-
4	113352			INSERT TEST SHIELD		ŭ			GSE	34	10 60	J	1	
3	113353			PLATE TEST SHIELD		Ŭ		MR62		34	10 60	_ <del></del>	 <del>                                     </del>	+
à	113354			SUPPORT LAMP TEST		ŭ		MR62			10 60	Ĵ	ì	
3	113355		-	SUPPORT LAMP SENSOR		Ŭ		MR62			10 60	<del>-j</del>	 	+
3	113730			HOLDER SUN SENSOR		أنا			GSE		04 61	٧,	1	
Ť	113731		A	SHIELD TEST SUN SENS	_	Ŭ		MR62	GSE		54 61	<del>J</del>	 	+
)	3349050			TEST LIGHT ASSY		انا	JPL	MR62	GSE	34		1	l	
	3349051			TOP TEST LIGHT	_	Li.		MR62		34			 	+
	3349052			BASE TEST LIGHT ASSY		ŭ		MR62			12 62	J	i	ĺ
	3349053			BODY LAMP TEST LIGHT	_	Ü	JPL	MR62					 <del> </del>	+
	3349055			CONTACT TEST LIGHT		ŭ	JPL	MR62			08 60	7.		
	3349056		H	INSULATOR TEST LIGHT	_	Ü		MR62		34			 	+-
	3349057			RETAINER TEST LIGHT		U	JPL	MR62			08 60	J	ļ	1
	3349058			THUMBSCREW TEST LITE		U	JPL	MR62			08 60		 <del> </del>	+
	3349059			GASKET TEST LIGHT		[4]			SSE	34		J		
			1.4	GASKET INNER TEST		U			GSE	34	38 60		 ļ	4_
	3349060					10		MR62			08 60	J		
				GASKET OUTER TEST		U		MP62			Q5 6 <u>0</u>		 <b></b>	$\perp$
	3349062			CLAMP BAR TEST LITE		U		MR 6.2	USE	3-		9		
	3349063			FEST LIGHT 455Y		U	JP!	MR.5.2	DOE !	1 64	<u>  68   - 6  </u>		 1	1

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4	3349064	1	177	BASE TEST LITE ASSY	1:		core	BERING	7=15 114.		we.	70.	CONTROL STATUS		NEXT ASSEMBLY	
	8900-65		1"	CABLE ASY INTERNAL		U	JPL	MR62 MR62	05E	34		52				
	8200197	_	+-	PAD SHIPPING CASE	+	U			GSE.	34	10-				1	_
:	8200198	-	1	COVER SHIPPING CASE		ľű		MR 62		34		62	٥		8200199	
7	8200199		+	SHIPPING CASE A.C	+	lü			95E	34	0.9	62	J		8200194	4
1	8100209		Д	BOOSTER NITROGEN	i	ŭ			35E	3.4						ļ
7	9,00211		$\vdash$	MOCK UP FORM AZC	+	tě		MR62	33E	3.4					<del> </del>	-
	6200215		ł	TOOL TUBE CUTTER ASY		Ĭă.	ا عز	MR62	GSE	1	09		j		9120315	i
1	3700216			KIT TUBE CUTTER ASY	1	Ū	JP L	MR62		34		62	- J		3200215	4
	8200308		1_	BLOCKHOUSE CHASS WIR		Ĭŭ.		MR.6.2		34	١,	1 4	0			
	R200374	5 P	Г	BLOCKHOUSE ASY	i	Ũ		MR62		34	<del> </del>	1	6			+
	0200375		L	BLOCKHOUSE ASY WIRE		5		MR62		24	1	!	5		1	
- 1	8700031			FUEL TILL ASSY	T	U	JPL	MR62	GSE	34	10	61	J		3261002	-
	8700034	L_	Α	TEST FIXTURE	1	Ų	JPL	MR62	üŝΈ	34	0.2				1.20.00	ı
	8700041		ł	FUEL ANK LEAK TEST	Т			MR62	ĠSΞ	34	05		J		1	t
	8700043		1	WRENCH ASSY		U	JPL	MR 62	GSE	34	06	62	j ]			ı
ľ	3700078			MANDEING FIXTURE		U	JPL	MR62	GSE	34			C		1	1
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_	119.49		+	FEED THRU PLATE PWA	+-	11	JP	MR 6.2	55E	3.5	NC.	7.0	STATUS		ASSEMBLY	4
J	119450			FEED THRU PLATE SIGN		10	JP:	MP62	GSE	35		1 1	0		i	ļ
)	4800353		+	SCHEMATIC CH SQUIB	+	忙	TEL	MR62	SE.	35	-	+	0		9300017	-
2	8200001	ļ	В	RACK ASSY		Ű	JPL	MR 6 2	GSE	35	0.2	1.5	·		8200014	
7	8200014		8	CB ASSY SQUIR CUR	+-	Ü	JPL	MREZ	USE	35		62			5200050	
;	8200019		1-	PYRO MONITOR B	1	U	25.	MR62	i3Sε	35		1	- 1		5200035	
т	8200020		IA	PANEL	╁	HU.	25/	MR62	GSE	35	_	62			3200030	
	8200021			CHASSIS ASSY		l		MR62		1 1	0 i	63	J		8200019	i
	8200022		A	PLATE FUNCTION	╁╾	U	JPL	MR62	GSE		02	62	.3		8200035	j
	8200023		A	PLATE FUNCTION	ŀ				GSE	35	C 1	63	3		8200019	
	8200023		Ā	PLATE FUNCTION	+	U	JPL	MR 62	SSE		01	63	, i		8200019	
	8200024		1.			U	JPL	MR62	GSE	35	0.2	63	J		8200035	ı
	8200024		A	PLATE FUNCTION	╀	U	JPL	MR62	GS E	35	0.2	62	J		8200035	1
	8200024			PLATE FUNCTION		U	'n	MR62	ú\$Ē		02	62	J		8200035	1
				PLATE FUNCTION	1_	u,		MR 62	GSE	35	01	63	:		8200019	ŀ
. 1	8200025			PLATE SUNCTION	1	U	JPL	MR 62	GSE	35	01	63	J		8200035	1
- 1	8200026			PLATE FUNCTION		U	JPE	MR62	65 E	35	01	63	J		8200019	
- 1	8200026			PLATE FUNCTION		U	JPL	MR 62	GSE	35	01	63	Ĵ		8200035	1
	8200027			PYRO MONITOR SCHEM		J	JPL	MR 62	USE	35	03	62	ا ن		6200035	
	8200028			BRACKET CHASSIS MTG		Ų	JPL	MR62	65E	35	01	63	J		8200035	1
	8200028			BRACKET		Ų	JPL	MR62	ن≲ڌ	35	01	63	ا ر		8200019	1
	8200029		Ιí	CB1 PYRG MONITOR		U	JPL	MR 62	GSE	35	02	62	J.		8200035	i
	8200030		<u>[</u>	CB2 PYRO MONITOR		lυ	JPL	MR 62	GSE		02				8200035	
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1	8200031		A	SUPPORT		υl	JPL	MR62	GSE			63	Ĵ		8200019	
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- 1	8200037			JUNCTION PANEL	1 1	- }	1					62	J		8200050	1
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F. Mariner R 1964 Drawing List: Flight Numerical

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_	550717		Α	PWR SUP MK2 L-BAND	┰	ΙŪ	AEI	MR64		33			0		4600312	1
	550717	PL	Α	PWR SUP MKZ L-BAND		U	AEI	MR64		33		- 1	0		550717	
	850738		Α	ARTWORK TEMPLATE		U	AEI	MR64		33			0		550717	
:_	850741		Α	ARTWORK TEMPLATE		U	AEI	MR64		33		- 1	0		550717	
	850749		Α	TRANSFORMER-PWR T401		Ü	AEI	MR64		33		T	0		550717	
2	850750	l	Α	SILKSCREEN	1	lυ	AEI	MR64		33	- 1	1	0		550717	
)	950716		Α	CHASSIS MK2 L-BAND		U	AEI	MR64		33		- 1	0		550717	-
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Ď	950721	I	A	SCHEMATIC MK2 L-BAND	Г	U	AEI	MR64		33			0		550717	-
0	950739		Α	COMPONENT BOARD REG	l	ľū	AEI	MR64		33		-	ō l		550717	
)	950740		Α	COMPONENT BOARD REG	Γ	ŭ	AEI	MR64		33		- 1	0		550717	
١	950742		Α	COMPONENT BD UNREG	1	Ū	AEI	MR64		33		- 1	οl		550717	
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١	61002		1	FLIP FLOP SCHEMATIC		U		MR64		32			0			
3	61003		<u> </u>	EMITTER FOLLOW SCHEM		U		MR64		32	_		0		1	
٩	61004			POWER ON RESET SCHEM		-		MR 64		32	- 1	- 1	0		1	
1	61005		L	REF SUPPLY SCHEMATIC		υ		MR64		32			0			
٩	61006			RESET AMPLIF SCHEM		U		MR64		32	- 1		0			
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١	61008	1	1	AND GATE SCHEMATIC		U	CCC	MR64		32			0			
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¥.	61010			AND GATE SCHEM		C	CCC	MR64		32		$\neg$	0			•
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1	61012			A/D CONV INPT SCHEM		U	CCC	MR64		32			0			
١	61013		1	AZD CONV COMP SCHEM		Ü	ccc	MR64	- 1	32	- 1		0			
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١,	61015			OR INVERT SCHEMATIC		u		MR64		32	- 1	į	ŏ l			
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1	61025			37 PIN CONN 20A22 J1	-	Ū	ccc	MR64	THAU SER.	32	MO. 78.	0			-
ı	61026			37 PIN CONN 20A23 J1		Ιŭ	ccc	MR64		32		lŏl		1	
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1	61030			50 PIN CONN 20A21 J1	l	U	ccc	MR64		32	- 1	0 1			
1	61031			50 PIN CONN 20A22 JZ	т	U	CCC	MR64		32		0		†	-
1	61032			50 PIN CONN 20A23 J2	l	U	ccc	MR64		32	ļ	0			
1	61033		П	50 PIN CONN 20A24 J2	Т	U	CCC	MR64		32		0			-
١	61034			50 PIN CONN 20A25 J2	l	U	CCC	MR64		32	ļ	0			
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п	2012003			NEGATIVE ASSY		Ü	ESB	MR64		34		0		2012001	
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	2012007		Ц	CONTAINERS		U		MR64		34		0		2012015	
1	2012008			WIRING DIAGRAM		U		MR64		34		0		2011000	
	2012009			HEAT TRANSFER		U		MR64		34		0		2012014	
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	2012016.		18	TRANSDUCER PANEL	1	Ų		MR64		34				2012019	-
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	123640	1	1	L-BAND SYS WIRING	1	U	JPL	MR64		31	1	0			
Ĺ	123641	<u> L.                                    </u>		COMMAND SYS POWER	1	u	JPL	MR64		31	ļ. i				
	123642		1	COMMAND SYS CCGS		U	JPL	MR64		31		0			
i	123643		L	COMMAND SYS ENCODER	1	Įυ	JPL	+		31	L	0			
ī	123644		Г	COMMAND SYS ENCODER	į –	U	JPL	MR64		31		0			
3	123645	1	1	COMMAND SYS ATT CONT	1	U	JPL			31		0			
3	123646	Γ	T	COMMAND SYS SCIENCE	Г	U	JPL	MR64		31		0			
3	123647	L.	L	POWER SYS POWER	L	Ų	JPL	MR64		31	L i	0			
3	123648		Τ	POWER SYS POWER	Γ	U		MR64		31		0		1	
3	123649	1		POWER SYS CC&S	$\perp$	10	JPL	MR64		31		0 1			

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DENOTES	CHANGE	10	PREVIOUS	LIST

# JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARINER R 64 NUMERICAL

DATE LISTED PAGE 4-12-63

. 1		2122	14.3	TITLE	ŧ	CLASS	*****	BELEA	51 704   (11 H	*110		TE	DRAWING CONTROL		NEXT	
	DRAWING NO.	NO.	3 5		5	_	C0 9E	\$1 \$115	7mtd 148.	***	<b>≥</b> o.	71.	STATUS		ASSEMBLY	4
П	123650		Г	POWER SYS ENCODER	l	U	JPL	MR64		31			0			ł
3	123651		1	POWER SYS ENCODER	ᆫ	U	JPL	MR64		31	L		0		ļ	4
7	123652			POWER SYS A/C	l	U	JPL	MR64		31	ľ		0			
3	123653		L	POWER SYS PYRO	_	U	JPL	MR64		31	_	$\vdash$	0		<b>↓</b>	_
	123654		1	POWER SYS WIRING	i	U	JPL	MR64		31			0		1	
Ц	123655		L.	SYSTEM	<u> </u>	U	JPL	MR64		31	<u> </u>	1	- 3		ļ	_
	123656		1	POWER SYS SCIENCE	1	1 -		MR64	1	31	l		ő			
1	123657		1_	SYSTEM	1	U		MR64		31	_		<del></del>		<del> </del>	_
5	123658		1	SYSTEM		U		MR64	İ	31	1		ő			
_	123659		↓_	SYSTEM	⊢	111		MR 64		31	-	-	<del></del>		<del> </del>	-
	123660			CCGS SYS ENCODER	1	lu.		MR64	l	31		1	ŏ		1	
	123661		↓_	CCGS SYS A/C	1	뜌	JPL	MR64	<del></del>	31		+	<del>-</del> ö		<del> </del>	-
5	123662		1	CCES SYS A/C	1	ı۳	-		l	31	1		ŏ l			
	123663		4	CC&S SYS PYRO	-	ĮŲ.	JPL	MR64	ļ	31		<del>-</del>	<del>-</del> 0		+	-
3	123664		1	CCGS SYS WIRING	ı	Į.	1	MR64		31	1		0 1		İ	
_	123665		1.	CC&S SYS SCIENCE	╀	ĮŲ,		MR64	ļ	31	<del>├</del>	+	<del></del>			-
	123666	l		ENCODER SYS A/C	ı	ľ	1			31	Ì		ŏ			
<u>.</u>	123667		_	ENCODER SYS A/C	ļ	U		MR64		31	ļ		0			-
3	123668	i		ENCODER SYS PYRO	ı	U	1 -	MR64		31			- 1			
3	123669		+	ENCODER SYS WIRING	+-	+-	JPL	MR64	-	-	┼	<del> </del> -			+	-
3	123670	i		ENCODER SYS WIRING	i	U		MR64	ļ	31		1	o			
3_	123671		+	ENCODER SYS PROPULSN	+-	ļų.	JPL	MR64		31	+-	<del>  -</del>	0		<del> </del>	-
3	123672		1	ENCODER SYS THERMAL	1	U	JPL	MR64 MR64	Ì	31		į	ŏ		Ĭ	
3_	123673	ļ	+	ENCODER SYS THERMAL	╀	10	JPL	MR64		31	+-	<del> </del>	- <del>5</del> - 1		<del> </del>	-
3	123674			ENCODER SYS SCIENCE		, -		MR64		31		1	0			
3	123675	ļ	+	ENCODER SYS RADIOMIR	+-	10		MR64		31	+-	<del>!</del>	ŏ	-	+	-
3	123676			A/C SYS A/C	1	I.	17	MR64	İ	31		1	ŏ			
<u>.</u>			+-	A/C SYS A/C	+-	Tu	_	MR64		31	+	<del> </del>	<u> </u>		<u> </u>	_
3	123678		1	A/C SYS A/C		1,0	1	MR64	!	31		1	ŏ			
3	123679		+	A/C SYS WIRING	+-	H.		MR64		31	+	+	ŏ		†	-
3	123680				ı	Ιŭ		MR64		31		1	o .			
3_	123681	<u></u>	-+-	PYRO SYS PYRO	╂	ŭ		MR64	-	31	+	+	ŏ		+	-
3	123682			PYRO SYS PYRO	1	10	1	MR64	İ	31		}	ŏ			
3	123683	├	+-	PYRO SYS PYRO	╁	lü		MR64	+	31	÷	+	5	•		
3	123684	1		SYSTEM	1	U		MR64	ļ	31	1	1	0		1	
3	123685	<del> </del>	+	WIRING SYS WIRING	+	U		MR64	<del>                                     </del>	131	+	1	ŏ			-
3	123686	l		SCIENCE SYS	İ	Ιü	1	MR64		31	1	1	o l		1	
3	123687	<del> </del> -	+	SCIENCE SYS MAG	+-	10		MR64	<del> </del>	31	+ -	†	1 6 1		†	-
В	123688	1		SCIENCE SYS MAGNOT				MR64	İ	31	1	1	l ă		1	

<sup>#</sup> DENOTES CHANGE TO PREVIOUS LIST

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	AWING	. ,	٠.	MARINER F				HNOLOGY, PASA ERICAL	DENA,	CALIF.		PAGE	5	4-12-6	3
-	DRAWING NO.	6.5.W	31	TITLE	:	200	VERNOR CODE	BELEASE FOR	PATP.	*10	TAIR 134	DRAWING CONTROL STATUS		MEXT ASSEMBLY	Ī
_	123690		10.	SCIENCE SYS PLASMA	ŀ	Ü	JPL	MR64	31	1	+**	0		<u> </u>	_
	123690			SCIENCE SYS COSMIC		lŭ	JPL	MR64	31	1		0.		i	
	123692		+	SCIENCE SYS PARTICLE		ΙŪ	JPL	MR64	31			0			
	123693	i		SCIENCE SYS RADIOMTR		Ιū	JPL	MR64	31			0		1	
	123694		+	SCIENCE SYS SCIENCE		Ū	JPL	MR64	31			0			
	123695			SCIENCE SYS SCIENCE	1	ū	JPL	MR64	31		1	0			
	123696	-	+	SYSTEM	†-	ŭ	JPL	MR64	31	1	1	0			
	123697		1	MAG SYS MAG	1	U	JPL	MR64	31	1	L	0			_
	123698	_	+	MAG SYS MAG	Г	U	JPL	MR64	31			0			
	123699		-	PARTICLE FLUX ION		U	JPL	MR64	31		1	0			_
٠	123700		T	WAVEGUIDE DATA	Γ	U	JPL	MR64	31		1	0		ŀ	
	123701		1	POWER	L	U	JPL	MR64	31	<b>↓</b> _	$\sqcup$	_ 0 _			_
	123702		1	WAVEGUIDE DATA	Г	U	JPL	MR64	31	i .	i l	0		1	
	123703			WAVEGUIDE DATA	┖	U	JPL	MR64	31		1	0			-
	123704		Ţ	WAVEGUIDE DATA	i	U	JPL	MR64	31	1		0		1	
	123705			WAVEGUIDE DATA	┖	ļυ	JPL	MR64	31	↓_	1	_ 0			-
	123862		L	DATA ENC OUTPUT CKT		U	JPL	MR64	32	_		0		-	_
	123863	1		DC AMPL OUTPUT STAGE		u	JPL	MR64	32			0		<u> </u>	
	123864		+	SCALE SW BLOCK DGM	T	Ü	JPL	MR64	32	T		0		1	
	123865		1	AMPL STAGE SCALE SW	Ì	lυ	JPL	MR64	32			0			
	123866			CAL CKT INPUT STAGE	Т	U	JPL	MR64	32			0			
	3151066	ļ	lc	GROUND PLANE		U	JPL	MR64	35					4100436	
	3151068		B	STIFFENER	Т	Ţυ	JPL		35		63	J		4100436	
	3151073		D	CAP CONDUCTOR ANTENN	┺	Ų	JPL	MR64	35	+ 2 -	63	J		4100322	
	3151078		C	PLUG	1	U	JPL		35	1	63	'		4100324	
	3151080	L	E	SHELL CONNECTOR	1	ļυ	JPL	MR64	35	0,	63	. J		4100323	
	3151087	1	В	STUD THREDED 4 FT	1	U	JPL	MR64	35	101	63	ا با		4100331	
	3151129	ļ		CONN RIGHT ANGLE	+-	Ų.	JPL	MR64	35	+++	62	<u> </u>		3151129	
	3151130		В	BODY RIGHT ANGLE		U	JPL	MR64	35	01	62	'		3151129	
	3151131	<b>├</b>	A.		+-	44	JPL	MR64	35	-	63	J		3151129	
	3151132		A			U	JPL	MR64 MR64		01	63			3151129	
	3151133	<del> </del>	- B	CONTACT R ANGLE CONN	+	Τü	JPL	+	35		163	<u> </u>		3151129	
	3151135	Ì		4 · · · ·		Ιŭ	JPL	MR64	35		63	انا		4100324	
		1	_ <u> B</u>	STUD SPACER R ANGLE CONN	+-	Ιů	JPL		35		63	J		3151129	
	3151165	1	1.	NUT PLAIN HEX MOD		Ti	JPL	MR64	35		63	151		4100320	
	ENOTES CHANGE	<u> </u>												JPL 0313 JU	j

		 	JET PRO CALIFORNIA INS MARINER F	TIT	UTE	OF TEC	HNOLOGY	r, PASADI				PAGE	6	4-12-63	
[ ]	DRAWING NO.	 31	TITLE	*	1	rinnel cost		17 FR	121P.		EALE LTE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	3
C	3151193 3151723	ВВ	CLIP BRKT ELECT DISC ANGLE SUPP INSIDE		U		MR64 MR64		35 35	12 12	62 62	) )		4101003	

1 3	DRAWING NO.	80.	155	TITLE	13	3	cost	BEPIAL T	*** 150	â(T.	P4.	78.	STATUS		ASSEMBLY	: :
1	3151193	<b></b>	la-	CLIP BRKT ELECT DISC	Н	U	JPL	MR64	-	35	12	62	)	4	101003	
	3151723			ANGLE SUPP INSIDE		ŭ	JPL	MR64	1	35	12	62	J		101003	
	3151724	-	B	ANGLE SUPP FRAME	Н	Ū	JPL	MR64		35	12	62	J		101003	1
Ιč				SERVO MTR ANTEN DR		Ū	JPL	MR64	- 1	34	12	62	J		200886	L.1
1	3151777	-	B	BRKT ACTUATOR SOLAR	Н	Ū	JPL	MR64		35	12	62	J	4	101003	П
I a	3152616	l	Б	TM1 TRANSFLUXOR		Ū	JPL	MR64		34	09	62	J		200573	
	3152616		10	TMI TRANSFLUXOR	-	Ū	JPL	MR64		34	09	62	J		200538	П
	3152617	1	D	TM2 TRANSFLUXOR		Ū	JPL	MR64	- 1	34	09	62	J		200573	1
	3152617		10	TM2 TRANSFLUXOR	<del>                                     </del>	Ū	JPL	MR64		34	09	62	J		200538	[ ]
Ιč	3153106		A	SCREEN		Ū	JPL	MR64		38	11	62	J		153116	Ш
	3153106		À	SCREEN	1	ΙŪ	JPL	MR64		38	11	62	J		153153	
Ιč		i		SCREEN		ĺυ	JPL	MR64		38	11	62	J		157762	
	3153106	<del> </del>		SCREEN	T-	ΙŪ	JPL	MR64		38	01	63	J		700522	
Ιč		l		SCREEN	l	lυ	JPL	MR64		38	11	62	J		700556	
	3153109	<del> </del>	+-	DOME INJECTOR	1	lυ	JPL	MR64		38	07	62	J		153155	1
	3153110			CLOSURE	l	lυ	JPL	MR64	- 1	38	07	62	J		153155	
	3153111	-	╁	MOZ SPRAY PROP	┼~	Ū	JPL	MR64		38	07	62	J	3	153155	П
	3153112			FLANGE OX		łυ	JPL	MR64		38	07	62	J		153155	Ш
	3153116	<del> </del>	+	TUBE OX WELD	T	Ū	JPL	MR64		38	07	62	J		153155	1
	3153117		Ì	TUBE OX		lυ	JPL	MR64		38	07	62	J		153116	
	3153118	-	$^{+}$	TUBE OX	1	Ū	JPL	MR64		38	07	62	J		153116	i i
	3153119	1		TUBE OX FLARED	1	U	JPL	MR64		38	07	62	J		153118	Ш
	3153120	+	+	NO2 OX SPRAY	T	ΙŪ	JPL	MR64		38	07	62	J	3	153118	1 1
	3153126			ROD SUPPORT	1	Ιū	JPL	MR64		38	07	62	J		700556	
	3153152	<del> </del>	+	INJECTOR ASSY	✝	Ū	JPL	MR64		38		62	J		700555	
	3153153	1		INJECTOR WLDMT		lυ	JPL	MR64		38	12	62	J		153152	1_1
	3153154	+ -	+	INJECTOR COATED	T	tσ	JPL	MR64		38	12	62	J		153153	
	3153155	1		INJ IST WELD	1	Ιū	JPL	MR64		38	12	62	J		153154	
15		+	+-	PROP TUBE	†	Ū	JPL	MR64		38	12	62	J		153155	
ĺ		1		SPIDER	1	ĺΰ	JPL	MR64			09		J		700332	
Ϊ́В		<del> </del> -	+-	STUD	1	U	JPL	MR64		38			J		700332	
l o	_	1	1	SUPPORT CTL WELD	1	U	JPL	MR64		38					700558	
- to	3157207	†	+-	FORWARD RING	T	U	JPL	MR64		38					157206	
Īč	_	1	1	ROD SUPPORT	1	ĺυ	JPL	MR64		38					157206	
Τò		<del>†</del>	+	ANGLE RING	1	U	JPL	MR64		38					157206	
ة ا			1	STRUCT CTL SUPPORT		U	JPL			38					700541	
	3157211		+	STRUT WELDMENT	Τ	TU	JPL	MR64		38					157210	
	3157212		1	TUBE		Įυ	JPL	MR64		38		62			157211	
15			+	CLEVIS BLANK	Т	Tu	JPL	MR64			0.7				3157211	
-18				TONGUE BLANK		Ιū	JPL	MR64		38	07	62	1 . J	]	3157211	

C 3157214 | TONGUE BLANK | U JPL MR64 | 38 07 62 J | 315

JET	PROPULSION	LABORATORY
CALIFORN	IIA INSTITUTE OF TECHN	OLOGY, PASADENA, CALIF.

F	RAWING	LI	s t	CALIFORNIA I MARINER					ZENA,	CALIF.	PAGE	7	4-12-6	3
	DRAWING NO.	9 MSP MG.	11	THTLE	<b>*</b>	3	VINDOR COOR	BELEASE FOR MAJOR STEE BEREAL THEN SER	*F57	triare trie	DRAWING CONTROL STATUS		NEXT ASSEMBLY	-
3	3157215	_	t	PIN CLEVIS	$\top$	U	JPL	MR64	38	07 62	- J	-	4700541	÷
)	3157312		_	SCHEMATIC		ļυ	JPL	MR64	38	01 63	ا ر		4700500	
- 1	3157609		Α	NEEDLE		Ū	JPL	MR64	38	10 62	J		4700510	
	3157609		Α	NEEDLE		lυ	JPL	MR64	38	10 62	١		4700519	
	3157609		Α	NEEDLE	7	U	JPL	MR64	38	10 62	J		4700529	
ı	3157612			GASKET		lυ	JPL	MR64	38	07 62	ا ر		4700565	- 1
	3157619		Т	PRIMER ASSY	$\top$	ΙŪ	JPL	MR64	38	07 62	j		4700500	
	3157651		Α	GAUGE VISUAL		lυ	JPL	MR64		10 62	J		4700527	
	3157660		Г	WASHER	$\top$	ΙŪ	JPL	MR64	38	07 62	- <del>5 -  </del>		4700513	
	3157663			PLUG	1	lυ	JPL	MR64		07 62	ă I		4700505	ı
	3157702			SHIM		ΙŪ	JPL	MR64	38	11 62	J		4700527	1
1	3157709			BLADDER CLAMP	1	Ιŭ	JPL	MR 64	38	11 62	ا رّ		4700508	
	3157712		$\Box$	BAFFLE		Ŭ	JPL	MR64	38	11 62	- J		4700510	-
	3157713			MAST	ı	ľů	JPL	MR64	38	11 62	ŭ		4700510	
	3157729		Α	CARTRIDGE SHELL	+-	ΙŬ	JPL	MR64	38	12 62	- <u>J</u> -		4700531	+
ı	3157730		A	BELLOWS ASSY		ľű	JPL	MR64	38	01 63	)		4700531	
1	3157773			ACTUATOR ASSY	+	ΙŬ	JPL	MR64	38	11 62	j <del> </del>		4700522	-
	3157734		li	SPRING INSTALL		Ιŭ	1	MR64	38	11 62	5		4700522	
	3157738		A	BODY	+	Ŭ		MR64	38	01 63	<del>- j</del> -		4700525	
	3157739			TUBE OUTLET		Ιŭ	JPL	MR64	38	01 63	ĭ		4700525	
٦	3157740		Ė	FLANGE OUTLET	+	ľŭ	JPL	MR64	38	11 62	- J		4700525	-
ı	3157741			PROBE	1	Ιŭ	JPL	MR64	38	11 62	ŭ l		3157733	Į
	3157742		_	PLUNGER	+-	ŭ	JPL	MR64	38	11 62	- j -  -		3157733	1
	3157746		1	DIAPHRAGM		Ιŭ	JPL	MR64	38	11 62	j l		3157733	i
	3157747		$\vdash$	GUIDES OUTSIDE	+	ŭ	JPL	MR64	38	1: 62	<u> </u>		3157734	4
	3157748		1	GUIDES INSIDE		ľů	JPL	MR64	38		3			
	3157749		$\vdash$	SPRING BELLVILLE	+-	ŭ	JPL	MR64	38	11 62	<del>-</del>		3157734	-
	3157750			SPRING	i	Ιŭ		MR64	38	11 62	- 1		3157734	
	3157751			RING BACKUP	+	u		MR64	38				4700522	4
- 1	3157752			SHIM		li.	JPL	MR64			J.		3157733	
	3157761			SCREEN ASSY	+	+×-			38	11 62			4700513	4
	3157762			SCREEN BRAZEMENT		U		MR64	38	11 62	ا		4700503	-
	3157763			SERVO	+-	_	JPL	MR64	38	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			3157761	4
	3157763			SERVO SPEC CONTROL	1	U	JPL JPL	MR64	34	11 62			4700502	
	3157769		$\vdash$	RING	+	U		MR64	31				3157765	
	3157816			SHIELD THERMAL	i	U		MR64	38	11 62	J		3157762	
	3157820		$\vdash$	RING SERVO MOUNT	+	U		MR64 MR64	38	07 61			4700500	į
	3157821			INSULATOR SHEET		u		MR64		07 62	١		4700560	-
	3157823		$\vdash$	SCREW SET	+	U		MR64	38	07 62			4700560	+
	3157825			SHIELD THERMAL		l.	JPL	MR64		07 62	ن		4700502	ĺ
-	NOTES CHANGE TO					ĮΨ	JPL	MK04	38	07 62	پ ا		4700500	1

#### JET PROPULSION LABORATORY

DATE LISTED CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.
MARINER R 64 NUMERICAL 4-12-63

i	DRAWING NO.	945H	15	TITLE	1	3	*E HOOS	*410	34 FOR	2154. 217	PATE	DRAWING CONTROL	NEXT ASSEMBLY
5	3158416		1	SUBCHASSIS MACHINED	+-	Ü	JPL	MR64	**** 167	35	01 42	STATUS	
•	3158416		A	SUBCHASSIS MACHINED	1	Ιŭ	JPL	MR64		35	01 61 01 61	١ ١	4600327 4600328
-	3158594		+	CLAMP		ΙŬ	JPL	MR64		34	02 61	<del>- j -  </del>	 4200033
)	3158596		C	HOLDER MAGNETIC CORE	1	Ιŭ	JPL	MR64		34	09 62	ű l	4200501
5	3158596		tc	HOLDER MAGNETIC CORE	$\vdash$	ΙŬ	JPL	MR64			09 62	- j	 4200502
)	3158596			HOLDER MAGNETIC CORE		Ιŭ		MR64			09 62	J	4200512
)	3158596		Ç	HOLDER MAGNETIC CORE	H	ΙŪ	JPL	MR64			09 62		 4200522
)	3158596		C	HOLDER MAGNETIC CORE	i .	Ĭũ.	JPL	MR64	l	34	09 62	j l	4200538
,	3158874		В	CABLE RETAINING BRKT	┢	ΙŬ	JPL	MR64		35	04 61	<del>-j</del>	 4901041
ļ	3158918		Ā	BRACKET CRYS MOUNT	l	ŭ	JPL	MR64			08 62	j l	4200511
,	3158919		Ċ	CRYSTAL	+-	ŭ	JPL	MR64		34	12 62	<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> -	 4200511
	3158929		-	STRAP RELAY CC&S	l	Ιŭ	JPL	MR64		34	02 61	j	
	3158938	-	A	STRAP RELAY	⊢	ŭ	JPL	MR64		34	08 62	<del>- j</del> - +	 4200573
	3158949		Α	STRAP RELAY MAN DUR	<b> </b> *	Ιŭ	JPL	MR64		34	08 62	j	4200523
	3158989			STRAP RELAY	H	Ιŭ	JPL	MR64		34	00 02	<del>- j -  </del>	 (250550
	3170385			HOUSING ASSY ANTENNA		ŭ	JPL	MR64			03 63	j	4200503
	3170397		Ā	COVER . HOUSING GEAR	⊢	Ü	JPL	MR64		34	12 62	<del></del>	 4200885
	3172189			TRANSPONDER 2A3		ŭ		MR64				-	3170401
	3172611		-	HARNESS ASSEMBLY	+	Ŭ	JPL	MR64			12 62	J	 4901041
	4100049		A	PIN LOCATING	l	u	JPL	MR64		3.5	12 62	- 1	4200886
	4100143			GUSSET SUPPT STRUCT	╁	ΙŬ	JPL	MR64			01  63	- J	 4101003
	4100148		A	DOUBLE SUPPT STRUCT	l	lu.		MR64		35	12 62	٠. ا	4100152
	4100149		Δ	STIFFENER SUPP STRUT	⊢	ŭ	JPL	MR64			01 63	<u> </u>	 4100336
	4100151		В	CHANNEL WELD STRUCT	ı	Ιŭ	JPL	MR64		35	12 62	١,	4100335
	4100152		8	CHANNEL WELD STRUCT		Ü	JPL	MR64		35	12 62	J	 4100336
	4100153		A	CHANNEL WELD STRUCT	1	lu.	JPL	MR64		35		١	4100336
	4100153			CHANNEL WELD STRUCT		Ü	JPL	MR64		35		<del></del>	 4100151
	4100154			RING FLANGE OUTER	l	1	JPL	MR64		35		-	4100152
	4100155		Ā	BRACE PIVOT ARM	┢	Ü	JPL	MR64				<u> </u>	 4100336
	4100159			REFLECT HI GAIN ANTT	١.	ŭ	JPL	MR64		35 35		J	4100336
	4100190		В	DOUBLER SUPPT STRUCT	-	U	JPL	MR64				<u> </u>	 4100321
	4100190			DOUBLER SUPPT STRUCT		U		MR64		35 35		J	4100151
	4100190		В	DOUBLER SUPPT STRUCT	-	U	JPL	MR64		35		J.	 4100152
	4100191			DOUBLER RING FLANGE		U		MR64				J	4100330
	4100191			RING FLANGE INNER	$\vdash$	U	JPL	MR64		35			 4100154
	4100195			STRIP INNER ANTENNA		U		MR64		35	12 62	4	4100336
	4100196			DOUBLER RING FLANGE		O D		MR64					 4100321
	4100198			STRIP OUTER SUPPT		U		MR64	i		01 63	1	4100336
	4100198			STRIP OUTER SUPPI	H					35		ند	 4100321
	4100199			LOUVER INSTALLATION		U		MR64			01  63	J	4100321
	NOTES CHANGE TO					U	JPL	MR64		35	12 62	المسان	 4901041

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1	RAWING	LI	s T	MARTHER E						-11-			PAGE	9	4-12-63	3
Ĭ	DRAWING NO.	ELSH BO,	4 5	TITLE	3	3	** ##### EGP#	BAIG	151 /04	PESP.		1456	DRAWING CONTROL STATUS		NEXT ASSEMBLY	T
5	4100201		В	HOUSING ASSEMBLY	-	Ü	JPI	MR64	THED \$50.	35	12	62	J		4100223	+
5	4100202		В	HOUSING ASSEMBLY		Ĭŭ.	JPL	MR64	-	35	12	62	j		4100223	1
Ė	4100203		В	PLATE LOUVER END	$\vdash$	Ιŭ	JPL	MR64		35	01	63	- <u>J</u>		4100223	+
5	4100204			ACTUATOR ASSY LOUVER		Ĭŭ.	JPL	MR64		35		63	j		4100419	١
5	4100204		В	ACTUATOR ASSY LOUVER	+-	Ιŏ	JPL	MR64	<del> </del>	35	01	63	J		4101060	+
3	4100209		A	STOP LOUVER		Ιŭ	JPL	MR64		35	12	62	j		4100201	ł
3	4100209		A	STOP LOUVER	╁╴	lΰ	JPL	MR64		35	12	62	<del></del>		4100202	+
3	4100209		A	STOP LOUVER		ľ	JPL	MR64		35	12	í I	- 1			١
<u>-</u>	4100209	-	A	STOP LOUVER	⊢	Ü	JPL	MR64		35	12	62	J		4101064	+
,	4100210			LOUVER ASSEMBLY COMP	1	ľ	JPL	MR64		35	01	62	,		4101065	ĺ
5	4100211			LOUVER ASSEMBLY		Ü	JPL	MR64		35		63	<del>-</del>		4100419	Ŧ
3	4100213			HOUSING TRUST BEARNG	1	lu	JPL	MR64		35	01	1	۱ ۲		4100210	1
_	4100214		Ā	BEARING ASSEMBLY	-	Ü	JPL	MR64		35	01	63	<del>,</del>		4100210	+
Ξ,	4100214		Â	BEARING ASSEMBLY		U	JPL	MR64		35			-		4100210	١
-	4100215		Â	SHAFT	⊢	U	JPL	MR64	-	35	01	63	١		4101062	+
	4100216		Ā	RETAINER SELF-LOCKING		Ü		MR64			01	63	-		4100214	I
	4100217		Â	WASHER		Ü	JPL	MR64		35	<u> </u>	63	J		4100214	4
	4100218		A	BEARING		Ü	JPL	MR64			1	63	J.		4100214	١
	4100218		A	PAD	⊢	U	JPL			35		63	J		4100214	Ŧ
	4100223		В		l	u		MR64		35		63	,		4100214	1
Н	4100223		В	RACK INSTALLATION RACK INSTALLATION	⊢		JPL	MR64		35	01	63	<u>,                                    </u>		4600457	ł
	4100228		- 1			U		MR64		35		63	J		4901054	Ì
` '	4400286		-	ACTUATOR SPIRAL COIL	H	Ų.	JPL	MR64		35	01	63			4100204	4
- 4		İ		CHASS BOOSTER REG		U	JPL	MR64		35	12	62	J		4400285	I
Ц	4400287		-	CB1 BOOSTER REG & PW	<u> </u>	U	JPL	MR64		34		62	J		4400285	1
	4400287	PL		BOOSTER REG & PW		U	JPL	MR64		35		62	J		4400287	1
_	4400288		$\sqcup$	TRANSFORMER T1		U	JPL.	MR64		35		62	J		4400285	1
	4400289			INDUCTOR L1		U	JPL	MR64				62	J		4400285	ı
	4400290			TRANSFORMER T2		Ų	JPL	MR64			12	62	J		4400287	ļ
۱	4400291			SUBASSY-CAPACITOR		U	JPL	MR64			12	62	J		4400285	Ì
Ц	4100311			RING MT OMNI ANTENNA		Ų	JPL	MR64		_	01	63	<u> </u>		4101025	į
	4100317		Α	TUBE SUPERSTRUCTURE		U		MR64		31	01	63	J		4101024	i
4	4100317		Α	TUBE SUPERSTRUCTURE	Ш	٦	JPL.	MR64		L	01	63	J		4101340	ĺ
Ì	4100320		В	ANTENNA 4FT ASSY		υ		MR64	j			62	J		4101001	I
4	4100321			REFLECT HI GAIN ANTT	Ш	U		MR 64		35	12	62			4100320	!
	4100323	j		OUTER CONDUCTOR ASSY		U		MR64		35	01		J		4100322	
4	4100324			INNER CONDUCTOR ASSY	Ш	U		MR64				63	J		4100322	l
	4100325	į		CONDUCTOR INNER ANTE		U		MR64			01	63	J		4100324	ĺ
	4100326			BLOCK SHORTING DIPOL		U		MR64		35	01	63			4100324	l
- 1	4100327			CONDUCTOR OUTER ANT		υļ		MR64		35	01	63	J		4100323	ſ
	4100328		A	FEED DIPOLE ELEMENT		U	JPL	MR64		35	01	63	J		4100323	ĺ

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) [	RAWING	LI	<b>S</b> 1	MARINER F	٠.	64	NUM	ERICAL	-				PAGE	10	4-12-6	. 3
) I	DRAWING NO.	945K 40.	1 :		1	200	COE 6		THOU SET.	PESP.		76	DRAWING CONTROL STATUS		HEXT ASSEMBLY	Ī
3	4100329			SLEEVE FEED ELEMENT	Ι-	ΙŪ	JPL	MR64		35		63	J		4100323	7
J	4100330	L	В	SUPPORT PIVOT ARM	1	U	JPL	MR64		35	12	62	J		4100321	
	4100331	1	A	LONGERON ASSEMBLY	Π	U	JPL	MR64		35	01	63	J		4100320	_
	4100332		Α	HIGH GAIN ANTENNA		U	JPL	MR64		35	01	63	J		4100331	
	4100333		Α	STUD SLOTTED ANTENNA	Г	Ū	JPL	MR64			01	63	J	•	4100331	_
	4100334		Α	HUB SUPPT STRUCT ANT		U	JPL	MR64			12	62	J		4100335	
Ī	4100335		Α	HUB ASSY HI GAIN ANT	П	U		MR64		35	12	62	J		4100336	-
_	4100336		Α	SUPPT STRUCT ASSY	l	U		MR64		35	12	62	J		4100321	
	4100337		Α	SCREW SHORTING BLOCK		U	JPL	MR64		35	01	63	J		4100322	_
	4100339		Α	SLEEVE INSUL ANTENNA		U	JPL	MR64		35	01	63	J		4100335	
	4100340		Α	TRUSS SECTION 3 ASSY		U	JPL	MR64		31	01	63	J		4101002	
	4100341			FITTING TRUSS SEC 3		U	JPL	MR64		31	01	63	J		4100340	
	4100342		Α	FITTING TRUSS SEC 3	Г	U	JPL	MR64		31		63	J		4100340	
	4100351		Α	FITTING TRUSS SEC 1		U	JPL	MR64		31	01	63	J		4101024	
	4100352		Α	FITTING TRUSS SEC 1		U	JPL	MR64				63	J		4101024	
	4100353		A	FITTING TRUSS SEC 1	ı	U	JPL	MR64		31	01	63	J		4101024	
	4100354		A	BRKT-INFRA RED SHILD		U	JPL	MR64		31	01	63	J		4101024	
	4100355			GUSSET TRUSS SEC 1		Įυ	JPL	MR64		31	01	63	J		4101024	
	4100358		Ā	FITTING TRUSS ASSY		Ų	JPL	MR64		31	01	63	J		4100360	
	4100359			FITTING TRUSS LOWER		U	JPL	MR64		31	01	63	J		4100360	
	4100360		Α	TRUSS SECTION 2 ASSY	i	υ	JPL	MR64		31	01	63	J		4101002	
	4100370			PLATE , ASSEMBLY		u	JPL	MR64		31	01	63	J		4101002	
	4100371		A	JOINT PLATE SUPERSTR		U	JPL.	MR64		31	01	63	J		4100370	
	4100372		Α	JOINT PLATE SUPERSTR		U	JPL	MR64		31	01	63	J		4100370	
	4100380			SUPPORT AGD SC MACH		U	JPL	MR64		35	01	63	J		4101003	
	4100381 [		C	SUPPORT BEE SC MACH		U	JPL	MR64		35	12	62	J		4101003	
	4100382			SUPPORT A SC MACHING	_	U	JPL	MR64		35	01	63	J		4101003	
	+100386		Α	FITTING		U	JPL	MR64		35	12	62	J		4101003	
	4100387		Α	TUBE		U.	JPL	MR64		35	12	62	J		4101003	
	4100388		Α	STIFFENER DIAGONAL		U	JPL	MR64		35	12	62	j l		4101003	
	4100389		Α	BRKT ARMING SWITCH		U	JPL	MR64		35	12	62	J	"	4101003	
	4100390		Α	BACKTIE		U	JPL	MR64		35	12	62	J		4101003	
	4100391		Α	TUBÉ STRUCT K BRACE		U,	JPL	MR64		35	12	62	J		4101003	
	4100392		A	BRACKET K BRACE		υ	JPL	MR64		35		62	J		4101003	
	4100393		Α	BRACKET K BRACE		U	JPL	MR64				62	J		4101003	
	4100394		A	END FITTING STRUCT K		υ		MR64		35	12	62	J		4101391	
1	4100395			FITTING TUBE		U	JPL	MR64		35		62	J		4101003	
J	4100396		Α	BRKT REFERANCE PLATE		υÍ	JPL	MR64		35			J		4101003	
	4100397		Α	BRKT ARMING SWITCH		υ	JPL	MR64		35			J		4101003	
1	4100399		A	ADAPTER SUN GATE		u l		MR64		35	12	62			4101003	

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			4.2		1	1	111004	BALIANS FOR		4659.		1454	DRAWING	NEXT ASSEMBLY
	DRAWING NO.	**	1 5	1	5	3	6004	SCRIAL THEU	111.		¥0.	10.	CONTROL STATUS	1
3	4100418		A	MIRROR ACTUATION IND	Π	U	JPL	MR64		35	01	63	J	4100419
ا ر	4100419		A	LOUVER INSTALLATION	1	U		MR64		35	01	63	J.	 4101001
3	4100429		A	MIRROR		U	JPL	MR64		35	01	63	J [	4100418
)	4100436		A	GROUND PLANE ASSY	l	U	JPL	MR64		35	01	63	ا ب	 4100323
5	4100437		A	HUB GROUND PLANE ANT		U	JPL	MR64		35	01	63	J	4100436
3	4100438		A	INSULATOR HI GAIN		U	JPL	MR64	Ī	35	0.1	63	J	 4100324
2	4100439		Α	DOUBLER PIVOT ARM		U	JPL	MR64		35	12	62	J	4100336
3	4100440		A	TRANSFORMER GOAXIAL		lu	JPL	MR64		35	01	63	J	 4100324
3	4100446		A	BRKT . TRUSS SECT 11		U	JPL	MR64		31	01	63	J	4100360
ار	4100511			BODY FUEL MANIFOLD		lυ	JPL.	MR64		35	12	62		 4700510
5	4100516		T	TANK SHELL NITROGEN		U	JPL	MR64		35	12	62	J	4700515
,	4100517		1	MANIFOLD BDY NITRO		u	JPL	MR64		35	12	62	ا	4700515
5	4100518		T	BODY NITRO VALVE	Г	υ	JPL	MR64		35	12	62	J	4700563
5	4100529		1	CARTRIDGE OXI ASSY	ı	lυ	JPL	MR64	-	35	12	62	J	4700528
	4100531		t	CARTRIDGE OXI WELDMT	1	TŪ	JPL	MR64		35	12	62	ال	 4700529
	4100533		l	FITTING OXIDIZER	ı	Ιū	JPL	MR64	- 1	35	12	62	ا	4700532
	4100534		t	BODY VALVE ASSEMBLY	t	tū	JPL	MR64		35	12	62	J	4700532
	4100535		ľ	NUT COUPLING	ı	Ιŭ	JPL	MR64		35		62	j l	4700532
	4100537		+-	BODY FILL VALVE	т	Ιũ	JPL	MR64		35	12	62	J	 4700519
	4100537			BODY FILL VALVE	1	Ιū		MR64	- 1	35	12	62	J	4700536
	4100542		$\vdash$	BRKT ELECTRIAL	Т	ΙŪ		MR64		35	12	62	Ĵ	 4700541
	4100549		1	VALVE FUEL 2- WAY	1	Ιŭ	JPL	MR64		35	12	62	J [	4700505
	4100550		+-	BODY FUEL VALVE 2-WY	$\vdash$	ΙŪ	JPL	MR64			12		J	 4700549
	4100552			ADAPTER ENGINE FLANG		li	JPL	MR64		35	12		ا ر	4700527
	4100553	_	+-	CLAMP OXIDIZER	1	Ü	JPL	MR64		35		62	J	4700527
	4101003		1	HEX STRUCTURE ASSY	1	lu.	JPL	MR64		35		1	5	4101002
	4101010		A	SUPT . C SPACECRAFT	†-	Ιŭ	JPL	MR64		35	n 1	63	-j	 4101003
-	4101011			FITTING FOOT C	1	Ιŭ	JPL	MR64			12		ا ر	4101003
,	4101021		$^{+}$	BRKT ATTITUDE CONTRL	†-	Ü	JPL	MR64		35		62		 4101003
	4101023			FITTING TRUSS SEC 1		li.		MR64		31		53	ا ــــــــــــــــــــــــــــــــــــ	4101024
	4101023		+-	TRUSS SECTION 1 ASSY	t	Tu.	JPL	MR64		31		63	j	 4101002
,				MAG SUPPORT ASSY	1	10	IPI	MR 64		35	10.	100	0	4101002
<u>_</u>	4101025	<del></del>	+-	BRACE HEX STRUCT	1	lu		MR64		35	0.1	63	<u> </u>	 4101003
)	4101026		1	PLATE STA 438.281	1	10	JPL	MR64		35	101	"	<u> </u>	4101002
_			+	LATCH UPPER SOL PNL	+	TV.	JPL	MR64		35	┿-	!	0	 4101001
-	4101028			LINK LATCH SOL PNL	ļ	10		MR64		35			ŏ 1	4101028
	4101029		+ -	BOLT EYE SOL PAL	+	10		MR64		35	+-	+-+	5	 4101028
	4101030	}	1	BRKT PIN PULLER	1	10	JPL	MR64		35			o	4101028
	4101031		+-	RETAINER LATCH	✝	10	JPL	MR64		35	+	† <u> </u>	5	 4101028
٠	14TOTO32	1	1	INCINTUCK CHICH	1	10	JPL	MR64		35	1	1 1	ŏ	4101002

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R	AWING	LI	S T	MARINER F									PAGE	12	4-12-6
	i i	9151	4.5			3	75 8001		SE 704	1612.	***	TE	DRAWING CONTROL		NEXT ASSEMBLY
	DRAWING NO.		10.0	†i†LE	3	CLASS	CORE	\$6 16.11	THEF PER.	Poy.	₩0.	**	STATUS		ASSEMBLY
J	4101040		П	FEED ASSY HI GAIN		U	JPL	MR64	Ì	35			0		1
	4101041		Ш	CAP CONDUCTOR	L	U.		MR64		35	ļ		Ç		4101040
J	4101042			OUTER CONDUCTOR	1	ļυ	JPL	MR64	ļ	35		! !	0		4101040
-	4101043		L!	SHELL CONNECTOR	L	U	JPL	MR64		35			0		4101042
	4101044			OUTER CONDUCTOR	l	U	JPL	MR64	i	35	l	1	0		4101042
	4101045			FEED DIPOLE ELEMENT	1_	U	JPL	MR64		35	L		0		4101042
	4101046		1	SLEEVE FEED ELEMENT	1	U	JPL	MR64		35	i	1	0		4101042
)	4101047		1	GROUND PLANE ASSY		Ų	JPL	MR64		35			0		4101042
)	4101048		Т	PLANE GROUND	I	Ü	JPL	MR64		35	1		0		4101047
)	4101049			STIFFENER GROUND PLN	L	Ų	JPL	MR64		35			0		4101047
)	4101050			HUB GROUND PLANE		U	JPL	MR64		35			0		4101047
:	4101051		1	INNER CONNECTOR ASSY	l.,	U	JPL	MR64		35	L		<u> </u>		4101040
_	4101052		$\top$	PLUG INNER CONDUCTOR	Γ	U	JPL	MR64		35	1	1 1	О	ł	4101051
}	4101053			STUD		]υ	JPL	MR 64		35	L_		0		4101051
_	4101054			CONDUCTOR INNER		U	JPL	MR64		35			0		4101051
ì	4101055			BLOCK SHURTING		U	JPL	MR64		35		1 1	0		4101051
5	4101056		+	INSULATOR	T	lu	JPL	MR64		35			Û		4101051
3	4101057		1	TRANSFORMER COAXIAL		lυ	JPL	MR64	1	35	1	1	С		4101051
5	4101058		+-	SCREW SHORTING BLOCK	T	Ū	JPL	MR64		35			0		4101040
,	4101060		1	LOUVER INST BATTERY		lu	JPL	MR64		35	01	63	J		4101001
5	4101061		1	RACK INST BATTERY	†	Û	JPL	MR64	1	35	01	63	J		4400391
5	4101062		1	LOUVER ASSEMBLY COMP	ļ	Ιū	JPL	MR64		35	01	63	j		4101060
5	4101063		+-	LOUVER ASSEMBLY	1	Tu	JPL	MR64		35	01	63	J		4101062
5	4101064		1	HOUSING ASSEMBLY L H	1	lu	JPL	MR64		35	01	63	J	ł.	4101061
5	4101065	_	+	HOUSING ASSEMBLY R H	$^{\dagger}$	ΙŪ	JPL	MR64		35	01	63	Ĵ		4101061
-	4101066			PLATE END	1	Ιū	JPL	MR64		35	01	63	J	!	4101061
-	4200004		A	SHIELD LIGHT ADJ #1	+	ΙŪ	JPL	MR64		31	10	62	J		4200002
	4200005			SHIELD LIGHT ADJ #2	1	آنا	JPL	MR64	1	34	10	62	j	l	4200002
`	4200025		В	SCHEMATIC	t	TÜ	JPL	MR64		34		62	J		4200033
j	4200033			ACCELEROMETER & ELEC		ľu	1 -	MR64		35		62	Ĵ	ļ	4901041
<del>,</del>	4200034	-	В	CB	t	U	+	MR64		34		62	J		4200033
5	4200035		A	ART WORK CB1	1	Ιŭ		MR64		34	0.8	62	i i	1	4200034
5	4200035		A	CB	t	١ŭ		MR64	1	34		62	J		4200033
2	4200036		1^	ART WORK CB2		Ιŭ		MR64	1	34		61	~		4200025
<u> </u>	4200037		-	SUBCHASSIS	+-	tü		MR64	+	134			j j		4200033
2	4200038	l	A	SHELL NITROGEN TANK		L	JPL	MR 64		34		62	Ĭ		4201060
5	4200044		18	SCHEMATIC	+	Τŭ		MR64	+	34		61			4200051
		1	1-	SCHEMATIC DIA	1	lu	1	MR64		34		61	l ĭ.		4200046
2	4200045	<u> </u>	10	TRANSFORMER	+-	۱ü		MR64	+	34		161		<del> </del>	420005
3	4200046	l	A		1	ľ			1				j	1	420005

				CALLEGORITA INC	. 717	1175	AE T**	N LABORA HNOLOGY, PASAD						DATE LISTE	0
) F	RAWING	; L1	<b>S</b> T	MADINED					ENA,	CALI	r.	PAGE	13	4-12-6	3
:	DRAWING NO.	\$45# \$6.	11	TITLE	9 10	1	VE #808	BELEASE FOR MAJOR STEE STEIAL TABLE SER.	8459. 817.		DATE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	1
5	4200049		A	CB2	1	U	JPL	MR64	34	08		J		4200053	Ť
)	4200050			PC TB 1		U	JPL	MR64	34	02		J		4200048	
	4200051	1	D	PC TB2		U	JPL	MR64	34	02	62	J		4200049	T
)	4200052	L	C	SUBCHASSIS ASSY	L	U	JPL	MR64	34	05	62	J		4200053	1
	4200053		C	7A19 CELEST RELAY&PW	-	Ū	JPL	MR64	35	12	62	J		4901041	T
	4200138	<u> </u>	<u> </u>	HOLDER ASSY MANEUVER		U		MR64	34	05	61	J		4200521	
	4200168		1	RELAY STRAP		U	JPL	MR64	34	05		J		4200533	T
	4200168		<u> </u>	RELAY STRAP	L	U	JPL	MR64		05		J		4200503	L
	4200263	i		XFORMER PWR CONVERTR	ŀ	U	JPL	MR64	34	06		J		4200563	i
4	4200301		Ç	SUBCHASSIS GYRO	_	V	JPL	MR64	34	09				4100300	1
2	4200302	1	В	CAPACITOR SUBASSY 1		U	JPL	MR64	34	10		J		4200300	i
4	4200306		Ē	CB1 ASSY	_	Ų	JPL	MR64	34	09		J		4200300	ļ
	4200306 4200307	PL	C	CB1 GYRO CONTROL		U	JPL	MR64		09		١		4200306	ı
	4200307		늄	CB1 PRINTED CIRCUITY CB 2 ASSY	_	U	JPL	MR64		09		J.		4200306	1
	4200308	D.		CB 2 ASSI CB2 GYRO CONTROL		U	JPL	MR64	34	10		,		4200300	l
	4200309		Ē	CB2 PRINTED CIRCUITY	_	U		MR64	34	09		<u> </u>		4200308	1
	4200310		5	CB 3 ASSY		ŭ,	JPL	MR64	34	10	62	J		4200308	ŀ
	4200310	01	b	CB3 GYRO CONTROL	-	U	JPL	MR64	34	10	62	J		4200300	∔
. 1	4200311	r L	E	CB3 PRINTED CIRCUITY		U	JPL			10	!!	J		4200310	ı
	4200312		b	CB 4 ASSY		-		MR64	34	10	+ -	<u>.</u>		4200310	╀
	4200312			CB4 GYRO CONTROL		U			34	10		۱ ۱		4200300	ı
	4200325		č	SCHEMATIC DIA	-	Ų.		MR64	34		62			4200312	ł
	4200348		A	TRANSFORMER		U		MR64	35	07		J.		4200352	ŀ
-	4200350		H	SWITCH AMPL SUBCHASS	-	::		MR64	34		61	J		4200053	╀
- 1	4200351		в	SW AMPL LOGIC 7A18		Ü	JPL	MR64	34	02		٦		4200351	Ĺ
	4200352			CKT BD 1 ASSY SW AMP	_	5		MR64	34		62	<del>- j</del> -		4901041	H
	4200352	PI		CB1 SW AMPLFIR LOGIC		ŭ	JPL	MR64	34		62	j l		4200351	l
	4200353			CB1 PC SW AMPL&LOGIC	$\neg$	ŭ		MR64	34		62	J		4200352	H
	4200354			CKT BD SW AMPL	- 1	ŭ	JPL	MR64	34	02	62	7		4200351	
	4200354	PL		CB2 SW AMPLFIR LOGIC	$\exists$	ŭ		MR64	34		62	J.		4200354	H
1	4200355			CB2 PC SW AMPLIFIER	ļ	ŭ	JPL	MR64	34	-	61	7 1		4200354	
	4200370			TRANSFORMER		ŭ		MR64	34		61	J		4200053	r
1	4200368		c	7A1 ATT CONT SUBASSY	ļ	ŭl		MR64	35	12	62	ĭ		4901041	
	4200408			SCHEMATIC LONG RANGE		Ū		MR64	_		63	J		4200596	Г
ıL	4200409			CB4 PRE-AMP&PULSE		ŭ		MR64			63	J		4200410	
7	4200409	PL		CB4 PRE-AMP & PULSE	$\exists$	Ū		MR64	34	11	62	J		4200409	۲
	4200410		Α	CB14CB4 SUBASSEMBLY		υl		MR64	34	01	62	ĭ		4200596	
Т	4200411			CB4 PC PRE-AMP&PULSE		ŭ		MR64		01	62	Ĵ		4200409	r
1	4200412		A	CB1 HIGH VOLT&LOW	- 1	üΙ		MR64	34	0.2	63	- 1		4200410	1

				CALIFORNIA IN	STIT	UTE	OF TEC	HNOLOGY, PASAD	ENA.	CALIF.				DATE LISTE	D
R	AWING	LĪ	s t	MADINED (								₽AGE	14	4-12-6	3
	DRAWING NO.	BASE NO.	1	TITLE	4	3	45 meet	BELEASE FOR BAJOR   1 Em SARIAL THRU 149.	HESP.		(ASE 17.6	DRAWING CONTROL STATUS		NEXT YUBHRIZA	Ī
	4200413		T	CB1 PC HIGH VOLTELOW		Ū	JPL	MR64	34		62	J		4200412	1
	4200414		A	CB2 ASSY PULSE DEMOD	L	Ų	JPL	MR64	34	0.2	63	J		4200415	
	4200415		Α	CB2 & CB3 SUBASSY	1	U	JPL	MR64	34	03	62	J		4200596	
	4200416		L	CB2 PC PULSE DEMOD		U	JPL	MR64	34	01	62	J		4200414	
	4200417		A	CB3 REED DRIVE ELECT		U	JPL	MR64	34	0.2	63	j		4200415	
		PL	D	CB3 REED DRIVE ELECT		U	JPL	MR64	34	11	62	J		4200417	
	4200418		_	CB3 PC REED DR ELECT	П	U	JPL	MR64	34	01	62	J		4200417	Ī
	4200500			SCHEM DIA CC&S	L	U	JPL	MR64	34	08	62	J		4200502	
ı	4200500	٠.	В	LAUNCH COUNTER	İ	U		MR64	34	08	62	J		4200503	1
	4200501	PL	Ç	CB1 LAUNCH COUNTER	L	Ų	JPL	MR64	34	08	62	J		4200501	
- 1	4200501	ς.	В	CB1 ASSY LAUNCH CNTR		U	JPL	MR64	34	08	62	J		4200503	
_		PL	8	CB2 LAUNCH COUNTER	1	U	JPL	MR64	34	08	62	J		4200502	
	4200502		В	CB2 ASSY LAUNCH CTR		U	JPL	MR 64	34	08	62	J		4200503	ĺ
	4200503			5A2 CCGS LAUNCH CNTR	$\vdash$	U	JPL	MR64	34		62	J		4901041	j
	4200504		A	SUBCHASS LAUNCH COUT		U	JPL	MR64	34	08	62	J		4200503	
	4200505			CB1 PC LAUNCH COUNTR	╙	U	JPL	MR64	34		62	J		4200501	
	4200506		A	CB2 PC LAUNCH COUNTR	١	U	JPL	MR64	34		62	J		4200502	1
	4200508		<b>—</b>	CC&S ARRANGEMENT	*	Ü		MR64			62	J			-
	4200510		A	CASE HARNESS SCHEM	*	U		MR64	34		62	J		1	I
	4200510			CENTRAL CLOCK SCHEM	├-	U.		MR64			62			4200512	1
				CENTRAL CLOCK SCHEM	ı	U		MR64		07		J		4200513	I
	4200510			CENTRAL CLK SUBAS	L-	U		MR64	34		62	J		4200511	
- 1	4200511	n.		CB1 ASSY CENTRAL CLK	Ì	U		MR64			62	J		4200513	I
_1		PL		CB1 CENTRAL CLOCK	<u> </u>	U		MR64			62	_ J		4200511	1
	4200512	ο,	В	CB2 ASSY CENT CLOCK		U.		MR64			62	J		4200513	
	4200512 4200513	PL		CB2 CENTRAL CLOCK SA1 CC&S CENTRAL CLK	<u></u>	U		MR64			62	J.		4200512	-
	4200513		C A			U		MR64			62	J		4901041	İ
	4200514		B	SUBCHAS CENTRAL CLCK PC CB1 CENTRAL CLOCK	Н	'n		MR64		-	62	<u>.</u> j.		4200513	ļ
	4200516			CB2 PC CENTRAL CLOCK	١,	U		MR64			62	١		4200511	Į
	4200520	_		MANEUV CLK SCHEM DIA	Н	5		MR64			62			4200512	ł
	4200520			MANEUVER CLOCK SCHEM		u		MR64			62	١		4200521	ĺ
	4200520			MANEUVER CLOCK SCHEM	Н	U		MR64			62	<u> </u>		4200522	ł
	4200521			CB1 ASSY MANEUV CLCK				MR64			62	i i		4200523	1
	4200521	pı -	_	CBI MANEUVER CLOCK	Н	U		MR64			62	J		4200523	1
	4200522	٠ -	- 1	CB2 ASSY MANEUV CLCK		u		MR64	1		62	١ ١		4200521	۱
		PL		CB2 MANEUVER CLOCK	-	U		MR64			62			4200523	ł
	4200523	-	- 1			- I			- 1	- 1	62	J		4200522	١
	4200524	$\dashv$		5A4 CC&S MAN CLOCK SUBCHASS MANEUVER	-	U	_	MR64			62	J		4901041	ļ
	4200525	- 1		CB1 PC MANEUVER DUR		U		MR64			62	J.		4200523	ĺ
_	OTES CHANGE TO	200000	_			<u>v 1</u>	J- 4	MR64	34	08	62			4200521	Ļ

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RAW	VING	LI	S T					<del></del>							<u> </u>	_
DRAW	ING NO.	941H WO.	4 :	TITLE	į	1	TE HOOR EODE		175H 175H	BESE.	911144	!	STATUS		NEXT ASSEMBLY	
420	0526	-	1	PC CB2 MANEUV CLOCK	╁	Ü	JPL	MR64	1882 162.	34	05 (		J.		4200522	†
	0530		la	ADDRESS REGIS SCHEM		ŭ	JPL	MR64				2	ا ن		4200531	1
	0530		10	ADDRESS REG SCHEM	1-	Ĭů	JPL	MR64				2			4200532	
	0530		10	ADDRESS REG SCHEM	ł	Ιū	JPL	MR64		34	08 4	52	J		4200533	
	0531	PI	18	CB1 ADDRESS REGISTER	1-	ΙŪ	JPL	MR64		34		37	J		4200531	-
	0531		Ā	CB1 ASSY MANEUV OUPT	i	ŭ	JPL	MR 64		34	08 6	52	J		4200533	
	0532	PI	tc	CB2 ADDRESS REGISTER	+	ŧΰ	JPL	MR64		134		2	Ĵ		4200532	Ī
	0532		A	CBZ ADDRESS REGISTER	ŀ	ľů	JPL	MR64		34		52	j l		4200533	. !
	0533		Tc	5A6 CC&S ADDRESS REG	t	ŭ	JPL	MR54		34		5	<del></del>		4901041	
	0534		A	SUBCHASSIS ADD REG		ŭ	JPL	MR64		34	1 .	52	j l		4200533	
	0535	<del> </del>	A	CB1 PC MD OUTPUT	┼-	Ιŭ	JPL	MR64		34	* I	521	J		4200531	-
	0536		A	CB2 PC MD OUTPUT	ı	Ιŭ	JPL	MR64		34		52	1		4200532	
	0537	<del>[                                    </del>	12	SUBCHASS END COUNTER	<del> </del> –	Ĭij.	JPL	MR64		-		52			4200573	
	0538	1	Ď	CB1 ASSY END COUNTER	ı	ľů	JPL	MR64		34		52	J I		4200573	
	0538	D)	15	CB1 END COUNTER	+	lŏ.	JPL	MR64		34		52	<u>j</u>		4200538	
	0539	1, 5	D	CB2 ASSY END COUNTER		ľű	JPI	MR64		134	1 - 1	52	Ĵ		4200573	
	0539	0.1	TB	CB2 END COUNTER	+-	Ü	JPL	MR64		134	1	5.2	- <u> </u>		4200539	
	0540	PL	B	MANEUV DUR SCHEM DIA		ľů	JPL	MR64		34		62	Ĵ		4200541	
	0540	1	뮴	MANEUVER DUR SCHEM	+-	U	JPL	MR64		34		62			4200542	
	0540	1		MANEUVER DUR SCHEM		I.	JPL	MR64		34	-	62	Ĭ		4200543	
	0541	D.	B	CRI MANEUVER DURATON	1-	ĬŬ	JPL	MR64	-	34		62	<u> </u>		4200541	_
	0541	1	8	CB1 ASSY MANEUV DUR	1	U	JPL	MR64	ŀ	34	1	1	J		4200543	
	0542	Pi	-	CB2 MANEUVER DURATON	+-	lü	JPL	MR64		34		62			4200542	
		PL	В	CB2 ASSY MANEUV DUR		ľů	JPL	MR64	1	34		62	· .		4200543	
	0542		8	545 CC65 MAN DURATN	+-	tü	JPL	MR64		34		62			4901041	
	0543			1		U	JPL	MR64	ŀ	34	1 1	- 1	Ĵ		4200543	
	0544	<u> </u>	A	SUBCHASS MANEUVER	+-	<del>-</del>			-	:34		62			14200541	
	0545	1	A	CB1 PC MANEUV DURAT	ì	U	JPL	MR64		134		62	~		4200542	
	0546	1	A	CBZ PC MANEUVER DUR	╁	U	1	+		+					4200551	
	0550	1	В	INPUT DECOD SCHEM	1	U	JPL	MR64	1	134		62.	7		4200552	
	0550	-	В	INPUT DECODER SCHEM	+	Įu.	JJPL	MR64		34		62				_
1 -	0550	1_	8	INPUT DECODER SCHEM	1	j.	JPL	MR 64	1	34		62	4		4200553	
	0551	PL	В	CB1 INPUT DECODER	+	U	JPL	MR64		35		62	- 4		4200551	
	0551	1_	А	CB1 ASSY INPUT DECOD	1	U	JPL	MR64	-	3.4		62	J		4200553	
	0552	IP.L	_₿	CB2 INPUT DECODER	+-	ĮŲ.		MR64	-	34		62			4200552	
	0552		A	CB2 ASSY INPT DECOUR		U		MR64		34		62	٧. ١		4200555	
	0553	↓	Ç	5A7 CC&S INPUT DECOD	4	U	JPL	MR64	<b></b>	34		62			4200553	
	0554	Ì	1.	SUBCHAS INPUT DECODE		1 -	1			1.		62	· ·		1 -	
	0555	<del> </del>	Α	CB1 PC INPUT DECODER		Ų.	<del></del>	MR64		34	+	621			4200551	
	0556	1	A	CB2 PC INPUT DECODER		U	1 .	MR64		34		62	·		4200552	
1420	0557		A	CB2 XFORMER RECT	1	U	JPL	MR64		34	0.8	62			4200563	

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	AWING			CALIFORNIA IN: MARINER F						INA,	. ALIF.		PAGE	16	4-12-c	÷
	DRAWING NO.	pate Po.	1:	TITLE		CCARG	VCH004		31 707 1 1170 7 118 318	METE.		1451	CRAWING CONTROL STATUS		HEKT ASSEMBLY	
1/4	+200557	PL	İБ	CB2 TRANSFORMER RECT	$\vdash$	U	JPL	MR64	771	34	106	<del></del>	J		4200557	1
	200558	_	A	TRANSFLUXOR TM10	_	U	JPL	MR64		34	0.8	62			4200573	L
1 4	+200559		Α	CB2 PC XFMR RECTIF	T	U	JPL	MR64		134	03	62	ال		4200557	i
) 4	+200560		D	TRANSFORMER SCHEM		U	JPL	MR64		34	08	62	J		4200563	_
1	200560		D	XFORMER RECT SCHEM	Т	U	JPL	MR64		34		62	J		4200557	
4 4	200561	PL	C	CB1 TRANSFORMER RECT		U	JPL	MR64		34	0.8	62	ن		4200561	
7	200561		В	CBI XFORMER RECTIFER	Г	V	JPL	MR 64		34	0.6	62	J		4200563	
1 4	+200562	1	8	CB1 PC XFMR RECTIF	ı	U	JPL	MR 64	1	34	03	62	J		4200561	1
5 1	200563		D	5AB CC&S XFMR RECT		U	JPL	MR 64		34	53	62	J		4901041	Ţ
1	4200564		В	SUBCHAS XFORMER RECT		U	JPL	MR64		34	28	62	J.		4200563	
3 1	200565	-	T	BRACKET DIODE XMFR	Т	Ų	JPL	MR64		34	01	62	J		4200563	
: 14	+200566	İ	A	STRAP RELAY CC&S		U	JPL	MR64	l	34	0.8	62	J		4200563	
1	+200567		1	INDUCTOR XMFR RECT	T	U	JPL	MR64		34	01	62	j		4200563	
H	4200568		1	INSULATION BD XMFR	1	lυ	JPL	MR64	1	34	0.1	62	J		4200563	
	+200569	<u> </u>	Ā	INDUCTOR BRKT XFORME	+-	Ü	JPL	MR64		34	03	62	J		4200563	_
	4200570	İ	D	END COUNTER CC&S		U	JPL	MR64		34	08	62	ا ز		4200573	
rt.	4200570		b	END COUNTER SCHEM	+	ΙŪ	JPL	MR64	1	34	0.8	62	j		4200538	,
	4200570		b	END COUNTER SCHEM		Ιū	JPL	MR64	ļ	34	0.8	62	J		4200539	
	4200571		B	CB1	$^{\dagger}$	ΙŪ	JPL	MR64		34	ica	62	J		4200538	_
	4200572	l	A	CB2 PC END COUNTER	1	lυ	JPL	MR64	1	34	0.8	62	ز ا		4200539	Ĺ
	4200573		В	5A3 CC&S END COUNTER	+	Ū	JPL	MR64		34	0.7	62	ز		4901041	
	4200573	P1 2	Ic	CB1 END COUNTER	1	Ιũ	JPL	MR64		34	07	162	J		4200573	į
	4200573	P1 5	A	CB2 END COUNTER	T	ũ	JPL	MR 64	T	3.4	la i	67	ر ز		4200573	Ţ
	4200574		la.	TRANSFLUXOR TM7		lu.	JPL	MR64	1	34	105	62			4200573	
	4200575	-	1B	TRANSFLUXOR TM8	t	ĺΰ	JPL	MR64	T	34	108	62	J		4200573	Ī
	4200576	1	A	TRANSFLUXOR TM9		ΙŪ	JPL	MR64		34	108	62	j.		4200573	į
	4200596	<del> </del>	1	ELECTRONIC ASSY	+-	ΙŪ	JPL	MR64	T	3 +	106	167	J		4800370	į
- 1	4200597		1	MAGNETIC SHIELD		ΙŪ	JPL	YR64	ļ	34	loi	126	J I		4200410	į
: ц.	4200597		+	MAGNETIC SHIELD	+-	tū	JPL	MR64		34	0.1	62	j		4200415	Ţ
	4200598		į	XFORMER MIG BRACKET	İ	Ιŭ	JPL	MR64	į.	34	0.1	62	٠		4200596	,
	4200599	+	+	H V XEDRMER MIG BAKT	+-	ΤŬ	JPL	MR64	T	34	+	162	J		4200596	,
	4200630	1	A	SHIELD REG WELDMENT		ľú	JPL	MR64		34	111	62	از ا		4201060	,
	4200635	+	-12-	COVER TOP SHIELD REG	+-	Ü	JPL	MR64			111	162	1 - 1		4200630	
	4200638	İ	1	TB SW AMPLEIER LOGIC		15	1	MR64			165	162	ر		4200640	
	4200638	<del> </del>	+	TERM BD SW AMPL LOG	+	Ü	JPL	MR64		34	loz	62	)		4200641	
	4200638	l		TH SW AMPLEIER LOGIC		Ιŭ	JPL	MR64	1	34	loz	62	رّ		4200639	
	4200639	+~-	+	CKT BD 3 ASSY SW AMP		tü	JPL	MR64	-	. 3 4	02	162			4200351	
	4200640	1		CB4SW AMPLFIER LOGIC		1:1	JPL	MR64		134	02	52			4200351	
			+	CKT BD 5 SW AMPL	+-	ľ	JPL	MR64	+	134		162	j		4200351	
	4200641	1	A	COVER , ALIGNMENT		10	JPL	MR 64		31		62	1 1		4901041	
<u> </u>	4200642	1	14	COACH . WETOWWENT		ŊŲ	1.20 L	114404		400	كفن	126			JPL 0513 JU	<u>-</u>

				JET PR CALIFORNIA IN:	STIT	UTE	OF TEC				CALIF				DATE LISTE	D
F	RAWING	L I	s T	. MARINER S	٠ ,	54	NUM	ERICAL					PAGE	17	4-12-6	3
ž	DRAWING NO.	841H 80.	1 5	TITLE	1	erre c	COOK COOK		ST FO4 1784 7484 SEE.	ETEP.		77.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	1
>	4200822		Α	HOUSING PHOTOMULTPLR	1	Ū	JPL	MR64	1400 014	34	02	63	J		4800369	7
:	4200823		1_	STEM RESISTOR BLOCK		U	JPL	MR64	!	34	06	62	J		4200826	
	4200824		A	UPPER TERMINAL PLATE		Ų	JPL	MR64		34	02	63	J		4200826	
	4200825		A	LOWER TERMINAL PLATE		U	JPL	MR64		34	02	63	ن		4200826	
	4200826		D	PHOTOMULT TUBE ASSY	Г	U	JPL	MR64		34	02	63	J		4200822	
	4200827		A	COIL ASSY		U	JPL	MR64		34		63	Ĵ		4800369	
,	4200828		A	MAGNET ASSEMBLY	1-	Ü	JPL	MR64		34	02	63	J		4800369	
	4200829		IA	BASE COIL	ļ	Ū	JPL	MR64		34	02	63	.i l		4200827	
	4200830		1	SCREW RAIL		Ũ	JPL	MR64		34	06	62	.j		4800369	
	4200831		ı	RAIL	!	Ū	JPL	MR64		34		62	.i l		4800369	
	4200832	-	T	HOUSING LENS	1	Ιŭ	JPL	MR64			06	62	J I		4200848	
	4200833		ı	SHADE LIGHT	ı	lŭ	JPL	MR64		34		62	ĭ		4200848	
_	4200834		1	BRACKET TRANSDUCER	Т	Ü	JPL	MR64			06	62	Ĵ		4800369	
	4200836			BRACKET CONNECTOR	ŀ	Ĭŭ	JPL	MR64		- ,		62	Ĵ		4200596	
	4200837			BRKT BOARD ATTACH	┰	Ŭ	JPL	MR64		34	06	62	J		4200596	
	4200838			REED CHOPPER DRIVE	l	Ιŭ	JPL	MR64				62	J		4800369	
	4200839		+	NUTPLATE CONNECTOR	├-	Ü	JPL	MR64		_	06	62	J		4200596	
	4200840		1	SPACER LENS	ŀ	lu.	JPL	MR64			06	62	j		4800370	
	4200841		┼-	FRAME CHOPPER & COLL	<del> </del> –	U	JPL	MR64		34	06	62	<del>-j</del>		4800369	
,			اما	CHOPPER		Ü	JPL	MR64			0.2	63	٦		4800369	
Ś	4200843	—	۳.	MOUNT REEDS	-	Ü	JPL	MR64		34	06	62	J		4800369	
-	4200844			BEARING PLATE		U	JPL	MR64					j l			
-	4200845		╀	PICKOFF CHOPPER DR			JPL	MR64			06	62			4800369	
j	4200845		l <sub>A</sub>			U	JPL			34	06	62	J		4200852	
5	4200847		1	COVER BRAZEMENT	-	U		MR64		34		62	J		4200596	
			1	HOUSING CHOPPER DR		U	JPL	MR64		34		62	J		4800369	
_	4200848		$\vdash$	LENS ASSEMBLY	<u> </u>	U	JPL	MR64		34		62	J		4800370	
	4200849			STANDOFF BOARD MOUNT		U	JPL	MR64				62	J.		4200596	
-			14	HOUSING PHOTOMULTPLR	-	Ų.	JPL	MR64			02	+	j		4200822	
	4200852			METRISITE REWORK		U	JPL	MR64	i			62	J		4800369	
_	4200853			NUTPLATE	-	U	JPL	MR64		34	06	62	J		4800370	
3	4200855			WINDOW PHOTOMULTIPLE		U	JPL	MR64		34	06	62	ز		4200822	
	4200.856		-	INSULATING CUP	L-	ш	JPL	MR64		34	06	62	_ J		4200822	
3	4200857			WASHER PHOTOMULTIPLE	1	U	JPL	MR64		34		62	J		4200822	
	4200858			SHIELD	┞	U	JPL	MR64				62	- J		4800822	
2	4200859			INSULATOR PHOTOMULT	l	U	JPL	MR64		34		62	J		4200822	
	4200860		1	CAP PHOTOMULT TUBE	_	U		MR64			06		J		4200822	
	4200861			MOUNT MAGNET		U	JPL	MR64			06		J		4800369	
	4200862		1_	SHIELD INSTALLATION	L.	U	JPL	MR64		34	06	62	J		4200822	
	4200863			LOCATOR BASE		U	JPL	MR64		34		62	J		4800370	
3	4200864		1	ADJUSTING SCREW	ı	lυ	JPL	MR64		34	06	1621	1 1		4800369	

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				CALIFORNIA IN						ENA,	LALIF.		216			_
F	RAWING	LI	S T	. MARINER F	٠ (	54	NUM	ERICAL	•				PAGE	18	4-12-6	3
	DRAWING NO.	BASH	1 5	TITLE	d E	5	*****		16 FOR	1257.	111	CALI	DRAWING		NEXT ASSEMBLY	7
_		BO.	5.5		5	3	0004	SIBIAL	THEU 120.	51¥.	WD,	10.	CONTROL STATUS		ASSEMBLY	
	4200865			PLUG POT ADJUST HOLE		U	JPL	MR64		34	06	62	J			Ī
	4200866			OUTLINE		U	JPL	MR64		34	06	62	J		4800370	
	4200868		Π	LENS COVER	Γ	U	JPL	MR64		34	06	62	J		4800370	
	4200872		1	CASE LONG RANGE SENS	1	υ	JPL	MR64		34	06	62	J		4800370	
	4200873		T	STRAP RAIL	T	Ú	JPL	MR64		34	0.6	62	J		4800369	
J	4200885		1	ANTENNA DRIVE ASSY		Ü	JPL	MR64		34	10	62	Ĵ		4101001	
Ţ	4200886		1	GEAR TRAIN ASSEMBLY		Ū	JPL	MR64	-	34	10	62	J		4200885	
)	4200887		1	YOKE ADAPTER ASSY		U	JPL	MR64		34	10	62	ا ر		4200885	
5	4200888		<del>                                     </del>	PLATE ADAPTER	1	U	JPL	MR64		34	10	62	J		4200887	7
)	4200889		į	TEE ADAPTER		U	JPL	MR64		34	10	62	ا ز		4200887	
)	4200892		1	YOKE		Ū	JPL	MR64		34	10	62	j		4200885	
2	4200893			SHIM ADAPTER	l	Ū	JPL	MR64		34	10	62	J l		4200887	
,	4201036		IA	GYRO CONTROL SCHEM	t	ŭ	JPL	MR64		34	10	62	ŭ		4200300	
j	4201037		1	CB4 PRINTED CIRCUITY		Ŭ	JPL	MR64				62	j l		4200312	
	4201038		+	ENCAPSULATING CAP	+-	Ŭ	JPL	MR64		34	09	62	<del></del>		4200300	•
4	4201038		ı	ENCAPSULATING CAP		Ιŭ	JPL	MR64				62	j		4200302	
	4201038		┼	ENCAPSULATING CAP	├	ü	JPL	MR64		34		62	<del>- 1</del>		4200302	•
	4201039		1	SLEEVE INSULATOR		U	JPL	MR64		34			- 1			
	4201039		+	WASHER INSULATOR	<b>├</b>	-	JPL					62	<u> </u>		4200300	
			10			U		MR64		34	09	62	i i		4200300	
	4201041			SLEEVE INSULATOR		Ų	JPL	MR64		34		62			4100300	
	4201042		A	WASHER INSULATOR		U	JPL	MR64				62	J		4100300	
_	4201044		A	BUSHING BOTTLE BRKT	*	υ	JPL	MR64		-		62	J		4200588	
)	4201052			MANIFOLD YAW JETS		U	JPL	MR64		34	12	62	J		4201053	
	4201053			YAW JETS . ASSY	L	υ	JPL	MR 64			12	62	J		4201060	
	4201054			MANIFOLD ROLLSPITCH		U	JPL	MR64		34		62	J		4201055	
2	4201055			ROLL JETS . ASSY		U	JPL	MR64		34		62	J		4201060	
Ξ.	4201056			NOZZLE BLANK		U	JPL	MR64		34	11	62	J		4201057	
2	4201057			NOZZLE JET		U	JPL	MR64		34	11	62	J		4201060	
Ċ.	4201058		1	BRK SUPPORT YAW JET		U	JPL	MR64		34	11	62	J		4101033	
)	4201059		l	BLK DIAG ATTITUDE		U	JPL	MR64		34	11	62	J		4201060	
J	4201060		Π	SYS GAS ATT CONTROL		U	JPL	MR64		34	11	62	١ .		4101001	
)	4201063		1	ADAPTER FILTER	1	U	JPL	MR64		34	01.	63	j		4201053	
)	4201063		T -	ADAPTER FILTER	Ι	Ū	JPL	MR64		34		63	J		4201055	
J	4201074		A	SCHEMATIC PYRO CONT	1	Ū	JPL	MR64		35	oi	i 1	J		4201096	
,	4201075			CB1 ASSY PYRO CONT	t	ŭ	JPL	MR64		35	×		0		4201097	
	4201076			TB1 PYROTECHNIC CONT	1	Ιŭ	JPL	MR64		35	İ	1 1	ŏ		4201075	
	4201077	_	t	RELAY CONTAINER 1	<del> </del>	ŭ	JPL	MR64		35	├	1	0		4201075	
	4201084			CB2 PRINTED CIRCUIT	l	li.	JPL	MR64		35	İ		ő		4201098	
<u>-</u>	4201085		$\vdash$	CB3 ASSY PYRO CONT	-	U.	JPL	MR64		35	$\vdash$	!	0			
ċ	4201086			TB3 PYROTECHNIC CONT		u	JPL	MR64		35	l		0		4201097	
	NOTES CHANGE TO		1		_	Ų.	77	Ink 64		122		1	<del></del>		JPL 0513 JUN	

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R	RAWING	LI	s t	MARINER F	₹ (	54	NUM	RICA	-				PAGE	19	4-12-6
	DRAWING NO.	815# 80.	15	TITLE	1	3	C004	PAIG	1 11 E 4 0 A	215P.	54	7.5	DRAWING CONTROL STATUS		NEXT ASSEMBLY
Н	4201087			CB4 ASSY PYRO CONT	H	Ü	JPL	MR64	**** ***.	35	wo,	34.	O		4201097
	4201088			TB4 PYROTECHNIC CONT		lu.	JPL	MR64		35			ō		4201087
	4201089		1	TB5 PYROTECHNIC CONT	T	ŭ	JPL	MR64	1	35			Č		4201097
	4201090			CB6 ASSY PYRO CONT		ľű	JPL	MR64	1	35			ō		4201097
_	4201091		1	TB6 PYROTECHNIC CONT		Ū	JPL	MR64		35			0		4201090
	4201092			CB7 ASSY PYRO CONT		ŭ	JPI	MR64		35			Ö		4201097
	4201093			TB7 PYROTECHNIC CONT	-	ŭ	JPL	MR64		35		1	Ö		4201092
	4201094			RELAY CONTAINER 2	1	ŭ	JPL	MR64		35			Ö		4201097
-	4201095		1	SUBCHASSIS PYRO CONT		ŭ	JPL	MR64	<b></b>	35		! -+	ō		4201097
- 1	4201096			PYROTECHNIC CONT BAL	1	ŭ	JPL	MR64		35			o o		123207
-	4201097		1	BLOCK WIRING DGM		ŭ	JPL	MR64		35		! - !	0		4201096
	4201098			CB2 ASSY PYRO CONT		Ιū	JPL	MR64	1	35			o l		4201097
		PL	1	CB2 ASSY PYRO CONT		ŭ	JPL	MR64		35			0		4201098
ł	4201300	_		TEE SOCKET WELD LP		lύ	JPL	MR64	1	34			Ö		4201060
1	4201332			POTTING PROCEDURE		Ü	JPL	MR64		35			O		4201097
1	4201337			WEDGE		lυ	JPL	MR64	1	34			0		4201060
1	4300187		E	TRANSPONDER 2A1		Ü	JPL	MR64		35	1.2	62	J		4901041
١	4300188		E	TRANSPONDER 2A2		Ú	JPL	MR64	1	35		62	Ĵ		4901041
1	4300194		В	FILTER SUBASSY 2A9	Γ	U	JPL	MR64		35		62	ن		4901041
╛	4300204		C	AUTO-PILOT 7A4 SUBAY		U	JPL	MR64		35	12	52			4901041
1	4300205		C	7A13 ANTENNA & SERVO	Ī	U	JPL	MR64			12	52	J		4901041
J	4300536			RADIOMETER LAYOUT		U	JPL	MR64		32		<u>L_</u> l	Q.		
1	4400078			CB1 PC PW SUPPY		U	JPL	MR64		34	12	62	J		4400312
	4400127		C	CHASSIS POWER	L	U	JPL	MR64		35	12	62	J		4400392
1	4400127		В	CHASSIS POWER		U	JPL	MR64		35	11	62	J		4400204
Į	4400272		A	POWER SWITCHING	L	Ų.	JPL	MR64		34	12	62	J		4400273
	4400272		A	POWER SWITCHING		U	JPL	MR64		34	12	62	J		4400278
-4	4400272		Α	POWER SWITCHING	_	U	JPL	MR64		341	12	62	Ĵ		4400279
- 1	4400273		Α	4A1 SUBASY PWR SW		U	JPL	MR64		34		62	J		4901041
-1	4400277		A	SUBASSY TELEMETERING	<u> </u>	u.	JPL	MR 64		34	12	52			4400273
- 1	4400283		A	CB1 ASSY PW SWITCHIG		U.	JPL	MR64	1	34		62	J		4400277
_	4400284		<b> </b>	SCHEM BOOSTER PWR	⊢	ш	JPL	MR64		35		62	ــــــــــــــــــــــــــــــــــــــ		4400289
ı	4400284			SCHEM BOOSTER PWR		U.	JPL	MR64	1	35		62	J		4400287
	4400285		ļ.,	BOOSTER REG 4A4 PWR	L	V.	JPL	MR64	L	35		62	J		4901041
	4400286		i	CHASSIS		U	JPL	MR64		34		621	J		4400285
	4400287		1_	CB1 BOOSTER REG	_	U	JPL	MR64	L	34	12				4400285
- 1	4400287	۲L		CB1 BOOSTER REG		U	JPL	MR64		34	1.2	62	ان		4400287
	4400288		<b> </b>	XFMR BOOSTER REG	L_	U.	JPL	MR64	L	34			0		4400285
١	4400289			INDUCTOR		U	JPL	MR64		34		62	J		4400285
	4400290		A	TRANSFORMER 12	1	U	JPL	MR64	<u>.</u>	34	12	62			14400287

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	RAWING		c T	MARINER					. ,			PAGE	20	4-12-6
	DRAWING NO.	B-1 H	11	71715	#	1111	VE V 10 1	PELEASE /08 BA/07   11   H	1011	FELT		DRAWING CONTROL		HEXT
_		90.	2.2		ᅸ	+	CCD4	\$1914; Teep ter	8.1		••	STATUS		ASSEMBLY
	4400291			CAPACITOR SUBASSY	1	U	JPL	MR64	34	12		J		4400285
-	4400292		↓_	CHASSIS CAP BOST REG	┺	U	JPL	MR64	35	12		J		440029
_	4400294		1_	CAPACITOR CLAMP		U	JPL	MR64	35	12		ن		440028
J.	4400295		В	PCB1 BOOSTER REG PW	┺	U	JPL	MR64	34	12		J		440028
	4400296		١A	PW SYNCRO SUPPLY		U	JPL	MR64	34		62	J		440029
J	4400296		↓_	PW SYNCRO SUPPLY	1	U	JPL	MR64	34	10		j		440029
-	4400297		İ	4A6 SUBASY PW SYNCRO	1	U	JPL	MR64	34	J - i	62	ل		490104
	4400298			SUBCHASSIS PW SYNCRO	1_	Ų	JPL	MR64	34		62	J		440029
_	4400299			CB1 ASSY PW SYNCRO	1	U	JPL	MR64	34		62	J		440029
<u> </u>	4400301		1_	TRANSFMR DR PW SYNCO	1	U	JPL	MR64	34		62	J		440029
-	4400302			SATURABLE TRANSFMR	1	U	JPL	MR64	34		62	Ĵ		440029
<u>c</u>	4400303		1_	TRANS PWR SYNCRO	1_	U	JPL	MR64	34	10		j		440029
_	4400304		1	CHOKE L1 PW SYNCRO	1	U	JPL	MR64	34		62	J		440029
<u>c</u>	4400305		1_	CHOKE L2 PWR SYNC	↓_	U	JPL	MR64	34	20		j		440029
0	4400307		1	400 CY PW SCHEMATIC		U	JPL	MR64	34		62	ز		440030
J	4400308		Α	400 CPS PW AMP 4A8		U.	JPL	MR64	34	12		J		490104
J	4400309		T	400 CY SUBCHASSIS		U	JPL	MR64	34		62	ا ا		440030
C	4400310		1	CHOKE , L1 PW SUPPLY		U	JPL	MR64	34	12	62	J		440030
ζ,	4400311		Τ	400 CY TRANSISTOR	Π	ľ	JPL	MR64	34		62	J		440030
D	4400312		1_	CB1 ASSY 400 CY SUPY	L	V	JPL	MR64	34	12	62	U		440030
D	4400312		A	CB 1 ASSY PW SUPP	Γ	U	JPL	MR64	34	12	62	J		440030
D	4400313			CB2 ASSY 400 CY SUPY	1_	U	JPL	MR 64	34	12	62	ز		4400301
D	4400313		Ā	CB 2 ASSY PW SUPP	Γ	U	JPL	MR64	34	121	62	J		4400301
C	4400314			TRANSFORMER TI POWER		U	JPL	MR64	34	12	62	J		4400301
C	4400315		1	TRANSFORMER TI POWER	T	ĪŲ	JPL	MR64	34		62	J		440030
C	4400316		1	CHOKE , L2 PW SUPPLY		U	JPL	MR64	34	12	62	ا ر		4400301
ς.	4400317		Т	400 CY INSULATOR PW	T	lu	JPL	MR64	34	12	62	J		4400301
C	4400318			400 CY INSULATOR PW		U	JPL	MR64	34	122	62	ا		4400301
C	4400319	-	1-	CHOKE L3 PW 400 CY	1	U	JPL.	MR64	34	112	-72	J		4400301
C	4400320			400 CY TRANSISTOR		U	JPL	MR64	34	12	62	J		440031.
C	4400321		_	2.4 KC PW SUPPLY	Т	U	JPL	MR64	34	11	62	J		440032
D	4400322		1	4A9 2400 CPS PWR AMP	1	U	JPL	MR64	34	11.	52	J.		490104
D	4400323		T	SUBCHASSIS PW SUPPLY	T	U	JPL	MR64	34	111	62	j		440032
)	4400323		1	SUBCHASS PW 2.4 KC	1	1Ū	JPL	MR64	34	111	62	J		440032
3	4400324		†	TRANS 2.4 KC PW	T	Ü	JPL	MR64	34		62	J		440032
в	4400325			CHOKE LI 2.4 KC PW		Ū	JPL	MR64	34		62	ĴΙ		440032
Č	4400328		†	BATRY CHG SCHEMATIC	+-	ŤŪ	+	MR64	34		621	J		440032
č	4400328			BATRY CHG SCHEMATIC	1	ľ		MR64			62	ا		440033
ō	4400329		†-	BATTERY CHARGER 4A7	$^{\dagger}$	Ιŭ	+	MR64	34		62	Ĵ		490104
Ď	4400330		1	BATTERY CHG SUBCHASS	1	ľ		MR64	34		62	,		440032
_	MOTES CHANGE T		-		-						~= 1			JPL 0513 JL

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				MARINER						,			PAGE	21	4-12-6	. 3
, K	AWING	LI	ا د		.,		,									_
i	DRAWING NO.	941H	1 5	TITLE	# 5	3	C004	8430	* 176#	100F.		EASE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	٦
5	4400331		+	CB1 BATTERY CHARGER	Ť	U	JPL	MR64	THEO 167.	34	12	62	STATUS			4
	4400333			PC BATTERY CHARGER		I.	JPL	MR64	-	34	12	62	5		4400329	
	4400369		A	CB1 PC PWR SWITCHING	+	ŭ		MR64	<del> </del>	34	12	62	<del>- J</del> -		4400283	
	4400380		Ι.,	CB1 PC PW SYNCRO	1	Ŭ	JPL	MR 64	1	34	10	62	j		4400299	
	4400381		t	CB2 PC PW SYNCRO	t	ŭ		MR64	-	34	10	62	<u> </u>		4400300	
	4400385		A	CB5 ASSEMBLY	1	u		MR64		34	12	62	J		4400273	
	4400386	<del> </del>	A	CB5 PC PWR SWITCHING	+	Ü		MR 64	<del> </del>	34	12	62	J		4400273	
	4400389		Ι``	COVER BATTERY	1	ŭ		MR64	ļ	35	12	62	١ ١		4400390	
Н	4400390		┪	BATTERY ASSY 4A14		Ü		MR 64		35		63	<u> </u>		4901041	
- 1	4400391		ľ	CHASSIS BATTERY		ľů		MR64		35		62	, I		4400390	
	4400392		+	CHASSIS . PW ASSEMBY	t	ŭ		MR64				62	J		4901041	-
	4500045	ļ.	l <sub>A</sub>	SCHEMATIC		lu.	JPL	MR64		35	05	61	,			
	4500152		Â	SHIELD . CHASSIS ASY	╁╴	Ü	JPL	MR64		35	12	62	J -		4200049 4500171	
	4500153		A	TOP SHIELD ASSY 3	1	u	JPL	MR64	1	35	12	62	7		4901041	
	4500171		A	CHASSIS ASSY DATA	+-	1.1		MR 6 4	-	35		62	7		4901041	
	4600161		1	TEMPERATURE XDUCER		Ų		MR64	1	34	09		J		4400285	
	4600312			2A4 SUBASY CL-BAND	+-	ŭ		MR64		35		62	J		4901041	
	4600313		c	CIRC & PWR MON 2A6		Ιŭ		MR64		35	12	62	Ĵ		4901041	
	4600317		B	JUNCTION BOX SCHEM	t	ŭ		MR64	-	33	01	62	<del></del>		4600318	
ı	4600318	i	E	COMMUNICATIONS 2A5		ŭ	JPL	MR64		35	12	62	J		4901041	
		PL	В	JUNCTION BOX COMMUN		ŭ		MR64		33	01	62		-	4600318	
١	4600319	_		CB1 PC JUNCTION BOX	1	ü		MR64			01	62	j l		4600318	
	4600320		1	SPACER JUNCTION BOX	†	Ŭ		MR64			10	61	J		4600318	-
	4600321		В	SUBCHASS JUNCT BOX		ľů		MR64		33		62	Ĵ			
	4600322		Č	6MT1 ANALOG-DIG CONV	1	u		MR64				62			4901041	-
	4600323		6	CONTROL DWG 6A1	ŀ	u		MR64		35		62	٦			
	4600324		ō	CONTROL DWG 6K2	+-	Ű.		MR64				63	J		4901041	-
	4600325			CONTROL DWG 6K1		انا		MR64		35		63	J		4901041	
	4600326		Ť	CONTROL DWG 6MT4	t	U	JPL	MR64		35		62	J		4901041	-
	4600327		c	CONTROL DWG 6MT3		U	JPL	MR64		35	12	62	٦		4901041	
	4600328		D	PN GEN CONT DWG 6MT2	-	Ü		MR 64			12	62	J		4901041	-
	4600329		c	CONT DWG ENCODER T/R		11	JPI	MR64	1		12	62	1		4901041	
	4600457		1	CHASSIS	Г	IJ		MR64				62	J .		4901041	-
1	4600458			SHIELD . COVER L BND		11		MR64		35	12	62	,		4600457	
1	4600459			COMMAND DECODER 3A3	Г	U		MR64		_		62	<del>- J</del>		4901041	-
	4600460			COMM DET B 3A2 B&T/R	1	ŭΙ		MR64				62	j		4901041	
†	4600461		$\Box$	COMM DET 3A1 SUBASY	1-	Ŭ	JPL	MR64		35			<del>- j</del>		4901041	-
	4600957			CHASSIS ASSY L BAND		ŭ	1	MR64	ļ			62	ĭ		4901041	
	4700315			BRACKET FUEL TANK	t	ŭ	JPL	MR64								-
	4700322		A			ŭ			1			1	٦			
: ]		O PREVIO		SPIDER WELDMENT		U		MR64 MR64				61 63	ن ل		_	4700541 4700513

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F	RAWING	LI	<b>S</b> 1	. MARINER F	٠.	9	NUME	ERICAL	-				PAGÉ	2.2	4-12-6	3
Ē	DRAWING NO.	849H 80.	# 5	TITLE	ŧ	CARE	T1 +804	MI/O	7 708 1 178 H	D112.		LIASE ATE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
1	4700346		T	SHIELD THERMAL		U	JPL	MR64		38		62	J		4700500	-
_	4700500		$\perp$	MCPU INSTALLATION		U	JPL	MR64		38		<u> </u>	0			
Г				CABLE INSTALLATION		U	JPL	MR64		38		i i	0		4700500	
_	4700502		4_	SERVO ASSY	L	U	JPL	MR64		38	<u> </u>	1	0		4700560	
)	4700503			FUEL SYSTEM INST TUBE FUEL ASSY		U	JPL	MR64		38	١.,		0		4700500	
	4700505		╄-	FUEL SYSTEM ASSEMBLY	ш	U	JPL	MR64		38		63	<u> </u>		4700503	
J	4700506		!	FUEL TANK ASSY		١-			ĺ		01	63	, , , , , , , , , , , , , , , , , , ,		4700503	
•	4700507		+-	FUEL TANK SHELL	Н	U	JPL	MR64		38	1	1/2	0		4700505	
	470050B		ł	BLADDER ASSY	li	U		MR64	1	38	12	62	70		4700506	
	4700509		╁╌	BLADDER FUEL TANK	H	Ü	JPL	MR64		38	12	62	J		4700508	
	4700510			MANIFOLD FUEL ASSY		u	JPL	MR64	ľ	38	01	63	J J		4700508	
_	4700511		+	FUEL MANIFOLD BODY	Н	Ü	JPL	MR64	-	38		62	<del>- j</del> -		4700510	
-	4700512		1	PRESS TROCK		Ιŭ		MR64		38	1 * *	1 2	ő		4700510	
Ţ	4700513	-		GN2 SYSTEM ASSY	Н	Ŭ	JPL	MR64		38		1	ŏ		4700503	
)	4700515			TANK N2 ASSY		Ιŭ	JPL	MR64		38	01	63	ŭ l		4700513	
5	4700515		1	TANK NITROGEN ASSY	Н	Ū	JPL	MR64		38		63	-j-		4700515	
)	4700516			TANK SHELL GN2		Ū	JPL	MR64			12		ا ت		4700515	
J	4700517			MANIFOLD BODY		U	JPL	MR64		38	12	62	J		4700515	
>	4700518		L.	VALVE BODY GN2		lù	JPL.	MR64		38	12	62	ii		4700563	
C	4700519		Г	VALVE ASSY FILL		U	JPL	MR64		38	П		0		4700563	۱
ς_	4700520			0-500PSI OXID CARTDG		U	JPL	MR64		38	01	63	J		4700527	
ζ	4700521		Г	CAP NEEDLE VALVE		U	JPL.	MR64		38	01	63	J		4700565	
J	4700522			PRESSURE REG ASSY		U	JPL	MR64		38	01	63	J		4700513	
5	4700523			HOUSING PRESS REG		U	JPL	MR64		38	01	63	J		4700522	•
2_	4700524		L	CAP PRESSURE REG		U	JPL	MR64		38		63	J		4700522	
)	4700525		Ì	BODY WELDMENT		U		MR64			01	63	J		4700522	
7	4700527		_	START SYS INST	Щ	U		MR64		38		$\vdash$	0		4700513	
	4700528		ı	START SYSTEM ASSY		U		MR64			01		J		4700527	
	4700529		⊢	CARTRIDGE OX ASSY	Щ	U		MR64			12		J		4700528	
	4700531		П	CART OX WELD		U		MR64		38		62	J		4700529	
_	4700532		<del> </del> -	VALVE OXIDIZER ASSY		U	JPL	MR64		38		63	J		4700528	
5	4700533			FITTING		U	JPL	MR64		38		62	J		4700532	
_	4700534		$\vdash$	VALVE BODY ASSY	$\vdash$	U		MR64	L		12		<u> </u>		4700532	
	4700535			NUT		U		MR64			12	62	Ž		4700532	
			$\vdash$	VALVE ASSY FILL		Ų.		MR64	<u> </u>	38		1	- 0		4700532	
	4700537			VALVE BODY FILL	l	U		MR64			12		J		4700519	
	4700537		$\vdash$	VALVE BODY FILL	Ц	Ų.		MR64		38		62	<u></u>		4700536	
- 1	4700538			FLANGE INLET REG		U		MR64			01	63	J		4700522	
D	4700539		L	MCPU SCHEM MONOPROPL		U	JPL	MR64		34	i		0		4700500	

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DATE LISTED 4-12-63

.	DRAWING NO.	8489	4.2	TITLE	ė	3	******		3 C FGR	#51P		74	DRAWING CONTROL	NEXT	1
=		mo.	5 5		\$	3	COOL	BE FEAT	Test \$40.	\$19.	W.,	16.	STATUS	ASSEMBLY	1.5
	4700540		Г	ENGINE INSTL		U	JPL	MR64	İ	38			C	4700527	
	4700541		L	STRUCTURE ASSY	L	U.	JPL	MR64		36			U	4700540	╀
	4700542			BRACKET ELEC	1	Ū	JPL	MR64		38	12	62	ا ل	4700541	
	4700543		L	PLATE ASSY		U	JPL	MR64		38			0	4700541	1_
ı	4700544			PLATE THRUST	l	U	JPL	MR64	i		12	62	J	4700543	1
ا ر	4700549			FUEL VALVE ASSEMBLY	L	U	JPL	MR64		38	12	62	J	4700505	1
J	4700550		Г	FUEL VALVE BODY		Ū	JPL	MR64		38	:2	62	J	4700549	
۱ :	4700551			XDUCER TELEMETER		U	JPL	MR64		36	01	63	J	4700513	⊥
7	4700552		Г	ADAPTOR		U	JPL	MR64		38		6.2	J	4700527	
:	4700553		l.,	CLAMP	L	U	JPL	MR64		38	12	52	J	4700527	1
)	4700554		Γ	ENGINE ROCKET		U	JPL	MR64		38	}		Ĵ	4700540	1
>	4700555			ENGINE WELD	l _	U	JPL	MR64		38	<u> </u>		G	4700554	
	4700556		П	NOZZLE WELDMENT	Г	Ū	JPL	MR64		3.8	0.1	63.	J	4700562	T
ار	4700557			NOZZLE		U	JPL	MR64		38	01	63	J I	4700556	Ĺ
5	4700558	_	1	SUPPORT CONT ASSY	1	U	JPL	MR 64		38	01	63	J	4700541	Τ
١.	4700558		1	SUPPORT CONTROL	١	U	JPL	MR64		3.8	01	63	J i	4700543	
-	4700559		Т	TUBE INLET REGULATOR		Ū	JPL	MR64		3.8	01	63	j	4700522	T
	4700560			CONTROL ASSY	l	lυ	JPL	MR64		38	!		0	4700500	1
	4700561		1	VANE	1	Ū	JPL	MR64		3.8			0	4700502	T
	4700562		1	SHELL WELDMENT		Ų	JPL	MR64		38	01	63	ل	4700555	
)	4700563			VALVE GN2 ASSY		U	JPL	MR64		38	_		0	4700513	Ţ
cİ	4700564			PLUG VALVE	-	lu	JPL	MR64		35	12	62	J	4700549	
-	4700565		Т	CAP NEEDLE VALVE	1	U	JPL	MR64		313	0.1	63	J	4700519	T
	4700565			CAP NEEDLE VALVE	1	U	JPL	MR64		3.6	0.1	63	J	4700529	1
-	4700565		-	CAP NEEDLE VALVE	T	U	JPL	MR64		2.0	o i	63	J	4700536	7
2	4700566			PLUG PRESSURE REG		Ü	JPL	MR64		38	Q1	63	J	4700522	
-	4700567		$\vdash$	SHELL	Г	Ū	JPL	MR64			lõi	63	- <del>J</del>	4700562	
-	4700567			SHELL		lυ	JPL	MR64		33	01	63	J	4700568	1
-	4700568		1-	SHELL COATED		iu	JPL	MR 64		138	6.1	63	J	4700562	T
-	4700568			SHELL COATED		1	JP.	MR64		38	Δī	63	.1	4700562	
-	4700569			BRKT MTG MIDERS MTR	t-	ĬŪ	JPL	MR64		135	1	,	Ö	4701020	
	4700570			BRKT MIG MIDERS MIR		Ĭ	IP:	NR64		٠			- ñ	4701020	
ζ-	4800040		A	SUBCHASSIS XPONDER	1	ŭ	JPL	MR64		3.	1 -	6	3 1	4300187	-
1	4800040		12	SUBCHASSIS XPONDER	ŀ	ľú	JPL	MR64		35		61	ı,	4300185	-
1	4800326		Â	RISER CLAMP WIRE NOZ	_	1J	JPL	MR 64		150		62	Ĵ	4800883	
ار	4800345		В	SCHEM PARTICLE FLUX	1	U	JPL	MR64		32			ō l	4800344	
J	4800369		18	CHOPPER DRIVE ASSY	1	U	JPL	MR 64	† <i>-</i>		106	62	- J	4800370	1
F	4800807	1	ľ	IR RADIOMETER 27A1		ĺυ	JPL	MR 64	1	135	12	62	انا	4800881	
J	4800815		t	SCI PWR SW	T	ΙŬ	JPL	MR 64	T		111	62	J	4800823	
Ξ.	4800815	ţ	la	SCIENTIFIC PW DIAG		III	JPL	MRE4	1	144	1.5	67		4800823	

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MARINER R 64 NUMERICAL PAGE 24 4-12+53

11	DRAWING NO.		2 2	TITLE	, i	CLASS	#E MOOR	BALLASE FOR WARRE ITTM	PERP	94.1A		PAWING ONTROL	MEXT
<u>-</u>	4800815	•c,		SCIENTIFIC PW SCHEM	-	Ü	JPL	MR64	35	11 6		STATUS	4800823
			14	SCHEMATIC PROGRAMMER		1 -	JPL	MR64	32	1111		<u>ا</u> ا	4800993
	4800825		$\vdash$	ISCHEMATIC PROGRAMMER	+-	U	JPL	MR64	132	<del> </del>		0	 4800995
,				SCHEMATIC SWEEP AMPL		Ü	JPL	MR64	32			ü	4800981
,	4800826		-	SCHEMATIC SWEEP AMPL	-	<u> </u>	JPL	MR64		<del> </del> -		5	 4800983
,	4800826				1	U	JPL	MR64	32			c l	4800987
_	4800827		ــــ	SCHEMATIC PLASMA	╄	U						0	
	4800827		1	SCHEMATIC PLASMA		U	JPL	MR64	32	1		-	4800989
)	4800845		L.	MAGNETOMTR 22A1	↓_	U	JPL	MR64	35		62	J	 4800854
)	4800846			MAGNETOMTR 22A2	1	Ü	JPL	MR64	35	12		J	4800854
)	4800847			MAGNETOMTR 22A3	_	U	JPL	MR64	35	12 10		J	 4800854
)	4800848			DATA SYSTEM 20A21		U	JPL	MR64	35		6.7	J	4800854
	4800849		l	DATA SYSTEM 20A22	┸	Ų	JPL	MR64	35		671	J	 4800854
_	4800850		Т	DATA SYSTEM 20A23	Τ	U	JPL	MR64	35		52	~	4800854
ŀ	4800851		1	DATA SYSTEM 20A24		U	JPL.	MR64	35		62	J	4800854
	4800852		1	DATA SYSTEM 20A25	Т	U	JPL	MR64	3.5		62	J	4800854
	4800853		1	20A6 DAS T/R	1	U	JPL	MR64	35	12 4	62	ز	4901041
-	4800854		+	ELECTRONIC ASSY 1	t	U	JPL	MR64	35	01 (	63	J	 4901041
	4800857		1	SUBCHASS PREAMPLIFR		ú	JPL	MR64	132	12 1	62	J	4800876
,	4800857		1-	SUBCHASS PREAMPLIFR	†	U	JPL	MR64	3.2	12	62	J	4800856
,	4800858			CB1 ASSY CHANNEL NO2		U	JPL	MR64	3.5	121	62	ا ن	4800856
-	4800858	PI	+-	CB1 PREAMP CHANL NO1	T	Ιŭ	JPL	MR 64	135		62	J	 4800858
,	4800860	-	1	CB2 ASSY CHANN NO162		Ŭ	JPL	MR 64	135	12		J	4800856
	4800860		+	CB2 ASSY CHANN NO162	+	Ü	JPL	MR64	3.5	12		Ĵ	4800876
	4800860	P)		CB2 PREAMP CHANL 162	1	Ιŭ	JPL	MR64	35	12		J	4800860
Ţ		<u> </u>	+	CB1 PC PRE-AMP CHIEZ		Ιŭ	JPL	MR64	3.2	1	-	0	 
	4800861		1	CB2 PC CHANN NOIGNOZ		Ĭŭ	JPL	MR64	3.5	0:1	63	J	4800860
-			+-	SHIELD PREAMPLIFIER	+	Ιŭ	JPL	MR64	35		62:	<del>-</del>	 4800856
	4800862			SHIELD PREAMPLIFIER	1	ľ	JPL	MR64	135		62	J	4800876
-			+-	SCHEMATIC PRE-AMP	╁	۱ŏ	JPL	MR 6 4		· · · ·	621	<del>š</del> †	 4800856
	4800864			8.5M SUBASSY CHAN 32	1	ľ	JPL	MR 6 4	34	11		ő	4800881
,	4800865		-	SUBCHASS ELEC UNIT	+	U	JPL	MR64	-135	4 4		Č .	 4800864
				CB2 SW DRIVER CH#2	1	1 -	JPL	MR64	122	1 1		Ġ.	4800879
	4800866	L	-		+-	U	JPL	MR64		4 4		0	 4800866
	4800866	PL		CB2 SW DRIVER CH#2 CB2 PC SW DRIVER		U	JPL		36	1		ő	4800865
۲		L	+		+-	10	JPL	MR64		<del>1 - i</del>		<del></del>	4800864
į	4800868					10	JPL		32			0	4800868
,	4800869	L	$\perp$	CB1 PC POST AMPL	+	U				+-+	-		
į	4800870			CB3 DEMODULATOR		U	JPL	MR64	3.2	1	İ	0	4800864
١	4800870	PL	_	CB3 DEMODULATOR	1.	U	JPL	MR64	. 3 4	+		0	4800870
J	4800871			CB3 PC DEMODULATOR		U	JPL	MR64	3.2		i	0	4800870
	4800871	l	-	CB3 PC DEMODULATOR	1	ΙU	1JPL	MR64	3.2	1 :	,	0 !	4800973

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				JET PR CALIFORNIA IN											DATE LISTE	D
וכ	RAWING	: 11	5.1	MADINED I	₹ (	64	NUM	ERICAL	r, PASAD -	ENA,	CALIF		PAGE	25	4-12-6	
	DRAWING NO.		35		T,	1 =	154301		15 8 70 6	****	P.C	IME	Desmins			-
J.	1	₩0.	5.3	Į.	1	1	2008	STATAL	THEU SEE.	DIV.	W0,	110.	DRAWING CONTROL STATUS		MEXT ASSEMBLY	1 2
ט	4800872			SCHEM CHANNEL 32	Ĺ	U	JPL	MR64		32			0			†-
A	4800873	61	+-	POWER SUPPLY SUBASSY	I_	U	JPL	MR64		32			0			1
Ď.	4800874	PL	1	POWER SUPPLY SUBASSY		U	JPL	MR64		32			0		4800873	Ţ
Ċ	4800875		<b>├</b>	SUBCHASS PWR SUPPLY	-	U	JPL	MR64		32	ļ		0		4800873	1
D	4800876	l	l	SHIELD PRE-AMP	1	U	JPL	MR64		32	ĺ	1 1	0			Т
2	4800877	<u> </u>	⊢	PREAMP SUBASSY NOT	ļ	U	JPL	MR64		35			J		4800881	
Ö	4800878	1	1	SCHEMATIC PRE-AMP	l	U	JPL	MR64		32	12	62	J		4800876	T
_		5.	╄	CB1 ASSY CHANN NO 1	L.	Ü	JPL	MR64				62	J		4800876	1
_		PL		CB1 PREAMP CHANL NO1		U	JPL	MR64		35	12	62	J		4800878	Г
<u> </u>	4800879	5.		CHANNEL #2 SUBASSY	<u> </u>	Ų	JPL	MR64		32			_ 0		4800881	
Α.	4800879	P.L.		CHANNEL #2 SUBASSY	i	U	JPL	MR64		32			0		4800879	
D.	4800880			33MM CH 1 SCHEMATIC		U	JPL	MR64		32			0			1
J	4800881		1	MICROWAVE RADIOMETER		U	JPL	MR64		32			0		1	T
7	4800882		L	RADIOMTR CHASS ASSY		U	JPL	MR64	i	35	01	63	J		4800881	Ĺ
י	4800883			CHASSIS ASSEMBLY		U	JPL	MR64		35	01	63	J		4800854	Τ
2	4800884		L	20A1 SCI PWR SW		U	JPL	MR64		35	01	63	J		4901041	
ا ب	4800885		П	SUBCHASS ASSY POWER		5	JPL	MR64		35	12	62	J		4800884	†-
,	4800936			CHASS PARTICLE FLUX		Ú	JPL	MR64	- 1	32			0		4801028	
Ţ	4800940			CB1 PARTICLE FLX DET		Ü	JPL	MR64		32			0		10000	1
9	4800941			WAVEGUIDE COUP 35GC		Ų	JPL	MR64	i	35	01	63	ارا		4800881	
	4800942		1	DIRECT COUP 10 DB		U	JPL	MR64		35	01	63	J		4800881	
	4800943			WAVEGUIDE COUPLER		U	JPL.	MR64		35	01	631	أد		4800881	
	4800944			SWITCH 35 G C CONT		U	JPL	MR64				63	Ű		4800881	Н
	4800945			CIRCULATOR CONT DWG	.	U	JPL	MR64		32	-		ō l		4800881	
	4800946			SW FERRITE CONT DWG		Ū		MR64		32			0		4800881	-
	4800947			SUPPORT ASY SHIELD		υŀ	JPL	MR64		32	- 1	- 1	ŏ		4800881	
	4800948			SHIELD THERMAL ASY		ŪΪ	JPL	MR64		32		$\neg$	ō		4800881	-
	4800949			MOD COUP 9GC CONT DW	- 1	U	JPL	MR64			01	63	ŭ l		4800881	
-	4800950			WAVE GUIDE SUBASSY	-	ūΤ		MR64				63	J		4800881	
: ]	4800951	ĺ		ADAPTER CONT DWG		ŭ	JPL	MR64		32	-	05	ō		4000001	
: [	4800952			VIDEO DET KA BAND	_	ŭ		MR64			01	63	J		4.000000	_
)	4800953	1		GRAG X TEG DEGLY	- 1	ŭl		MR64				63	7		4800881	
П	4800954			TERM NOISE SOURCE	-+	~+	-	MR64				63			4800881	
	4800955	- 1		WAVEGUIDE SJBASSY 1		ŭ		MR64				63	J		4800831	
	4800956			WAVEGUIDE SUBASSY 2	$\dashv$	أثا		MR64				63			4800881	
	4800957			BEND H-PLANE				MR64			01		J		4800881	
7	4800958			BEND E-PLANE	-+			MR64			01		- <del></del>		4800881	
	4800959			V-BLOCK ASSY	- 1	- 1	1	MR64			01		i i		4800881	
	4800960			BRKT COUPLER NO 1		<del>-</del>		MR64				63	J		4800881	
	4800961			BRACKET COUPLER 2				MR 64			01		,		4800881 4800881	

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ž	DRAWING NO.	948 W 80.	\$ 5	<b>{</b>	d 5	25	V1 + DG E	BAJO BAJO	701	ECLP.	# 10 b	1151	DRAWING CONTROL STATUS		MEXY	T
ζ	4800962		Г	BRACKET SUPPORT	1	U	JPL	MR64		35		63	J		4800881	
<u>C</u>	4800963		┖	BOSS MOBILE		U	JPL	MR64		35	01	63	J		4800881	
C.	4800964		١.	BRACKET CONNECTOR		U	JPL	MR64		32	T		0		10000	+
J	4800965		L.,	UV PHOTOMTR CON DWG	l	U	[JPL	MR64		32	i	!	0		1	
J	4800966		Ι,	REFERENCE HORN	Г	U	JPL	MR 64		32			0			t
2	4800967			COVER HORN	ļ	U	JPL	MR64		32	1	1	0			
	4800968		I -	BUSHING PIN STOP	Π	Ū	JPL	MR64			01	63	J		4800882	†-
2	4800969		L.	BRKT CONN MOUNTING		U	JPL	MR64		35	01	63	J		4800881	
	4800971		Ι	TB1 POST AMP CH1	Г	Ü	JPL	MR 64		32		-	0		4800880	+
۹_	4800971	PL		TB1 POST AMP CH1		U	JPL	MR64		32	!		0		4800971	l
J	4800972		١.	CB2 SWITCH DRIVER	Γ	U	JPL	MR64		32		$\vdash$	0		4800879	t
<u>ر</u>	4800973			CB3 DEMODULATOR CH1		U	JPL	MR64		32		:	o l		4800879	ı
J	4800974			CB2 PC SW DRIVER		U	JPL	MR64		32		_	0		4800972	+
J.	4800975		ì	CB1 PC POST AMPL		υ	JPL	MR64		32	Ι,		a		4800971	Ĺ
J	4800976			CB4 REF OSCILLATOR		Ū	JPL	MR64		32		-			4800864	ł
ŧ	4800976	PL		CB4 REF OSCILLATOR		Ū	JPL	MR64		32			ŏ		4800976	l
Г	4800977		П	CB4 PC REF OSCILLATE	H	Ü	JPL	MR64		32		$\vdash$	<del> </del>		4800976	Ł
j	4800977		ll	CB4 PC REF OSCILLATE	l	ŭ	JPL	MR64		32			ŏ		4801011	l
	4800977	P		CB4 PC CH162	Н	Ū.	JPL	MR64		32			0	-	4800977	Ł
,	4800978		1	SHIELD CHASSIS ASSY		J	JPI	MR64			01	62	9		4800883	ı
7	4800979			23A3 SWEEP AMPI	Н	Ū	JPL	MR64		35	V+-	0.5	- ŏ		4901041	⊦
١,	4800980			SUBCHASS SWEEP AMPL		Ŭ	-	MR64		32			o l			ı
	4800981	PL		CB5	Н	U	JPL	MR64		32		-	0 +		4800979	L
٠l	4800983 8	י ב		CB6		U	JPL	MR64		32	- 1	1	ŏ		4800981	ŀ
7	4800985			23A1 SOLAR PLASMA EL		ŭ	JPL	MR64		35		-	-0		4800983	L
ı	4800986			SUBCHAS PLASMA ELECT		U	JPL	MR64		32	į		5		4901041	ĺ
7	4800987 F	51		CB1	$\vdash$	ŭ	JPL	MR64		32	— i		<del>5</del> +		4800985	L
	4800989 6			CB2	H	ŭ	JPL	MR64		32	1				4800987	ı
_[	4800991			23A2 PROGRAMMER		-	JPL				i		0		4800989	Ļ.
	4800992			SUBCHAS PROGRAMMER	1	U	JPL	MR64		35		i	0		4901041	Ĺ
	4800993 F	·		CB3		U		MR64		32			0		4800991	L
		5 I		CB4		۷Ì	JPL	MR64		32	- }	- 1	0		4800993	
	4800997			CHASS ASSY PWR SUPP		<u>u</u>	JPL.	MR64		32	—i		0		4800994	L
- 1	4801002	i		PARTICLE FLX SCHEM	- (	U	JPL	MR64		32	- 1	- 1	0		i	
	4801004		+	OP SHIELD CHASSIS		U	JPL	MR64		32	i		0		1	
	4801005	- 1		ALIGNMENT WASHER			JPL	MR64			01	63	J		4901041	
	4801006				1	U	JPL	MR64		32	_		0		4800882	
- 1				ADJUSTMENT STUD CHAS		U	JPL	MR64		32		1	0		4800882	
	4801011			CB4 REF OSCILLATOR		Ų.	JPL.	MR64		3.2	i		0		4800879	_
	4801012			SPACER TUNING FORK			JPL.	MR64		32			0		4800864	Γ
1	4801012		- 1	SPACER TUNING FORK	- 1	:11	JPL!	MR64		32			0		4800879	

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<u> </u>	DRAWING NO.	BASH BO.	15	TITLE	į	3	7(#000 COOR	BLID	35 FOR 1558 THOU LEF.	dere.	#1 L I	****	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
-	4801013		+-	TRANSPONDER CAP SW	$\vdash$	Ü	JPL	MR64	7250 117.	32	-0.		0		4800868	t
	4801013		1	TRANSPONDER CAP		ŭ	JPL	MR64		32			0		4800972	1
	4801014		+	SHIELD ELEC UNIT	_	Ū	JPL	MR64		3.2			0		4800864	1
	4801015		1	INSULATOR	1	Ū	JPL	MR64		32			0		4800986	
	4801016	_	<del> </del>	INSULATOR		ΙŪ	JPL	MR64		32			0		4800986	
- 1	4801017			INSULATOR	ļ	Ιŭ	JPL	MR64		32			o l		4800986	
	4801018	-	+-	INSULATOR	1	tŭ	JPL	MR64		32	_		0		4800992	1
	4801019		1	INSULATOR	ŀ	Ĭŭ	JPL	MR64		32			0		4800992	ļ
	4801020	-	+-	INSULATOR	1	lΰ	JPL	MR64		32			0		4800980	_
	4801021			INSULATOR	ļ	Ĭŭ	JPL	MR64		32			0 .		4800980	
	4801022	<del>                                     </del>	+-	CB1 PARTICLE FLUX	T	Ĭŭ	JPL	MR64		32	$\Box$		ō			
	4801023		1	CB1 PC PARTICLE FLUX		Ιŭ	JPL	MR64		32	1	. 1	С		4801022	
	4801024	1	+-	MAG SENSOR 22A1 CONT	t	ŭ	JPL	MR64		32	<b></b> -		0			
	4801025	1		MAG EL 22AZ CONT DWG		Ιŭ	JPL	MR64	1	32			0			
	4801025	-	+	MAG EL 22A3 CONT DWG	H	Ü	JPL	MR64		32	<b>†</b>		0			
- 1	4801025		1	TH PARTICLE FLUX		U	JPL	MR64		32			0		4800352	
_	4801027	ļ	+	SUBASSY PARTICLE FLX	⊢	tŏ	JPL	MR64	<del> </del>	32	-		0			_
. 1		i		CHASS PARTICLE FLUX	i	lu	JPL	MR64		32	ļ		ō			
	4801029	<b>├</b> ─	-	SUBCHASSIS MACHINED	+		JPL	MR64	-	34	111	62	J		-	-
	4900028	ŀ	F		1*	U	Jer	MR64	1	35	58	62	J		4600329	
	4900033		ĮA.	SUBCHASS MACHINED	+-	Ϊ́	JPL	MR64	+	35	12	62	j		4900256	
	4900252	İ	i	RING HARNESS INSTL	ļ	U	JPL	MR64		35		63	J		4100310	
	4900256	↓	+-	CARLING INST SPCRAFT	╀	V	JPL	MR64	<del> </del>	35	112	62	<del></del>		4900313	
٠ ا	4900300		A	TROUGH SECTION ASSY	i	U	JPL	MR64		135		62	j	!	4900311	
	4900301	1	A	GUSSET TROUGH	₩		JPL	MR64		135	12	62	<del></del>		4900316	
5	4900301	1	Α	GUSSET TROUGH		U		1		35	12	62	J		4900312	
	4900301		A	GUSSET TROUGH	ļ.	U	JPL	MR64		35	12	62		-	4900313	
	4900301		A	GUSSET TROUGH	1	U	JPL	MR64	1	35	12	62	Ĵ		4900314	
Ξ.	4900301	<u> </u>	A	GUSSET TROUGH	-	U		_	1	35	112	62	_ <del></del>		4900314	_
2	4900301		Α	GUSSET TROUGH	1	U				35	112		J		4900315	
	4900301	-	A	GUSSET TROUGH	╀	14	JPL	MR64	-	35		62	<del></del>		4900318	
- 1	4900302	1	Α	SHIM TROUGH HARNESS	1	U		MR64	1		12	62	j		4900318	
2	4900303	1	A		+	ļυ	JPL	MR64	+-	35	112	62	<u> </u>		4900318	_
3	4900304	1	A			U		MR64		35		62	J			
ر	4900305	L	_ A		1-	U		MR64	<del> </del>	35	12	62	<u> </u>	<del></del>	4900318	
Ċ	4900308	1	Α		l	U			1	35		62	J		4900315	
<u>_</u>	4900308	L -	A		4	U		MR64	ļ	35		62	J		4900300	
В	4900309		Α		1	U	1			35		162	j			
C	4900310		A		4_	Ų			1	35		62		-	4900311	
D	4900311		Ä		1	U			i	35		6.2	ن	1	4900306	
J	4900312	1	A	TROUGH SECTION ASSY	1_	U	IJPL	MR64	1	35	12	62	J	<del></del>	14900305	

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_	RAWING NO.	915H 80.	1	TITLE	4	88	******	BELEASE FOR			78.	DRAWING CONTROL STATUS		MEXT	-
4	900313	-	A	TROUGH SECT ASY BAYS	-	U	JPL	MR64	35	12	62	J		4900305	Ī
	900314			TROUGH SECTION ASSY	ļ	U	JPL	MR64	35	12	162	J _		4900305	
	900316		À	TROUGH SECTION	Т	Ū	JPL	MR64	35	12	62	J		4900305	I
	900318			GUSSET TROUGH		U	JPL	MR64	35	12	62	J		4900327	I
	900319		A	GUSSET TROUGH	t	Ū	JPL	MR64	35	12	62	J		4900313	ì
	900320	ĺ		GUSSET TROUGH	ı	ĺΰ	JPL	MR64	35	12	62	J		4900312	1
	900321			CONNECTOR BRKT LEG A	-	ΙŪ	JPL	MR 64	35	12	62			4900328	
	900322		IA	GUSSET TROUGH	1	Ιū	JPL	MR64	35	12	62	J		4900328	1
1	900325		+	STUD PLATE		Ū	JPL	MR64	3.5	12	62	J		4900318	Ī
	900326		1	GUSSET TROUGH		lυ	JPL	MR64	35	01	63	J		4900312	
	900329		+-	CONNECTOR BRKT LEG E	Т	Ū	JPL	MR64	3.5	01	63	j		4900510	
	900505		ĺΑ	BRKT DA-15 CONNECTOR		Ū	JPL	MR64	3.5	12	6.2	J		4901054	
	900510	-	+	CABLING INSTALLATION	1	ΙŪ	JPL	MR64	35			0			
	900511			9W1 RING HARN SIG		ĺυ	JPL	MR64	135	į	1	0			
	930512		+	9W2 CASE HARN COMMUN	+-	ŭ	JPL	MR64	35	01	63	J		4900510	
	900512	1		9W3 CASE HARN COMMND	ı	Ιŭ	JPL	MR64	35			0		i	
	900514	<b>├</b>	+	9W4 CASE HARN PWR SW	┿	ΙŬ	JPL	MR64	3 5	+-	1	0			_
	+900515			9W5 CASE HARN CC&S	ı	Ιŭ	JPL	MR64	35		į	0			
· -	900516	ļ	+	9W6 CASE H DATA ENCO	┰	Ιŭ	JPL	MR64	35		-+	0			
1			i	19W7 CASE H ATT CONT	1	ľ		MR64	3		1	ŏ			
	900517	├	+-	9W8 PYRO HARN MAIN	+	Ĭΰ	JPL	MR64	35		+	0			
	+900518			19W9 CASE H PWR&PYRO	1	10		MR64	3		-	0		ļ	
	+900519	<del> </del>	+-	9W10 INCONN SUBASSY	╁	TV	JPL	MR64	139		63	j		4700501	
	+900520		İ	9W10 PYRO HARN MCPU		ľ		MR64	3			ا ز ا		4900539	
	+900520	<del> </del>		9W10 PTRO HARN MCPU	+-	10		MR64		01		<del></del>		4900539	
	+900521			9W11 INTERCONNECT	1	ŭ	JPL	MR64		lai		ا ر		4700501	
	+900521	-	+	9W12 CONT SYS MCPU	╁	Tö	JPL	MR 64	3					4900539	
	1900522		1			ľ	1	MR64	13		63	l J		4700501	
	+900522		-	9W12 INTERCONNECT 9W13 EARTH SENSOR	+	10	JPL	MR64	139		100	0		100502	
	900523	1			1	ľ	JPL	MR64	3		i	Ö		1	
	+900524	<b>├</b>		9W14 MOTION SENS HAR	+-	Į.	+		3		-†	ŏ		1	
1	4900525			9W20 SCI CASE HARN		10	1		3		-	Ö			
	+900526	-		9W21 SCI SIG HARNESS		Tu.		MR64	3			0			
	4900527		1	9W2Z MAGNETOMTR HARN	1	U			[3]		1	0		1	
	4900528	4	+-	9WZ3 SCI POWER HARN	+	~+-	-				ļ	1-0			
	4900529			9W24 SCI CASE HARN		U			3		-	0		1	
-	4900530	1	4-	9W30 RADIOMTR CASE	+	ĮŲ.	_		- 3		+-	0			
	4900531		ì	9W40 RING HARN PWR		U		1 1	3		1	0			
-	4900532	<del> </del>	_	RAD 9 GC SW-ELECT	+	14	JPL				+			·	-
	4900533			RAD 9GC PREAMP-ELECT	1	ļu			3			0			
14	4900534	<u> </u>	┸	RAD 9 GC DET-PREAMP	_	١Ļ	JPL	MR64		حلة	<u> </u>	1_9		JP1, 0513	

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Š	DRAWING NO.	40.	1 5	11718	3	173	C00E	ST FIRE	7HPU 848.	BIV.		ATE YE.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	i
	4900535			RAD 35 GC SW-ELECT	1	Ü	JPL	MR64	7277	35		1	0		+	-
	4900536		┖	RAD 35GC PREAMP-ELEC		Ų	JPL	MR64		35		1 1	ō		İ	
	4900537		ı	RAD 35GC DET-PREAMP	Ī	υ	JPL	MR64		35			0		-1	-
_	4900538		L	9W37 ATT CONT JET H	1_	U	JPL	MR64		35	1		ō l		1	
	4900540			SC CABLING	Г	U	JPL	MR64		35			0			-
_	4900541		<u></u>	RAD TUN DIO AMP CABL		U	JPL	MR64		35			0			
	4900546			CABLING FLOW CHART	T	U	JPL	MR64		35		1	Ó			-
	4901001		8	SHIELD , CHASS ASSY	1	U	JPL	MR64		35	12	62	ا ز		4901054	
	4901053		1	BRKT CONNECTOR MT	Т	U	JPL	MR64		35			- J		4500171	
	4901053		_	BRKT CONNECTOR MT		U	JPL	MR64		35	12	62	ا ز		4460392	
	4901054			CHASSIS ATT CONT		U	JPL	MR64		35	12	62	J		4901041	
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				MISC SPACE SCI DATA		ľ									1	
1				ELECTRICAL INTERFACE						_		-			+	
	200			40A1 PWR SW-SCAN ACT		u	JPL	MR64		32			0		1	
1	201		П	40A1 PWR SW-UV PHOTO		Ū	JPL	MR64		32		1	ō l		<del> </del>	-
	202		Ш	40A1 PWR SW-RADIOMTR		U	JPL:	MR64	i	32	1		o l		1	
I	203			40A1 PWR SW-ATT CONT		U	JPL	MR64		32			0			
1	204			40A1 P SW-SCI INSTR		U	JPL	MR64		32	-		o l			
ı	204	A		21 MICROWAVE RAD-GSE		υĪ	JPL	MR64		32			0			
1	205			40A1 SCI PWR SW-DAS		υl	JPL .	MR64		32	- 1		à		1	i
İ	206			40A1 SCI PWR SW-DAS		U	JPL	MR64		32	-1		o l			•
1	207			40A1 PWR SW-DECODER		υl	JPL	MR64		32			ō l		l	
ł	302	i		21 MICROWAVE RAD-DAS		U	JPL	MR64		32			3			•
1	303			21 MICRO RAD-DAS/ENG	L	U.	JPL	MR64	j	32	į	Ť	ō l		1	ł
۱	304			21 MICROWAVE RAD-GSE		U	JPL	MR64		32			0		1	İ
ļ	401			27A1 IR RADIOMTR-DAS		<u>u</u> l	JP L	MR64		32	- 1	- 1	o l			
١	402			27A2 IR RAD CAL-DAS	IT	U	JPL	MR64		32			0		1	İ
1	403			27A1 IR RAD-ISOL BOX		υĺ	JPL	MR64		32	į	- 1	0			
I	500	ĺ		22 MAGNETOMETER-DAS		U.	JPL	MR64		32	-		0			t
ļ	600		[	23 SOLAR PLASMA-GSE	Ш	ů.		MR64		32	- 1		ŏ			
ĺ	601	J		23 SOL PLAS PROG-GSE	П	U		MR64		32			0		1	1
L	602			20A5 SOL PLASMA-GSE				MR64		32	- 1		ŏ		1	!
ĺ	603	-7	T	23 SOL PLASMA-GSE				MR64		32		$\neg$	ö		1	ł
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l	605			23 SOL PLASMA-DAS		u	JPL	MR64		32		$\neg$	0			t
ı	606	- 1	- 1.	23 SOL PLASMA-DAS		üΙ		MR64		32	- 1	- 1	ă l		1	l

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[]	DRAWING NO.	DALM NO.	131	TITLE	į	] }	VE 1000		st foe	1617.	DE-EASE DATE	DRAWING CONTROL		NEXT	1
<del> </del>	607		+	23 SOL PLAS PROG-DAS	+-	1.		MR64	THEN 112.		#0. Y#	STATUS		ASSEMBLY	
	700			25 PART FLUX DET-GSE		lü.		MR64		32 32		9			1
	701		$T^-$	25 PART FLUX DET-DAS		tŭ		MR64		32		1 6 1		+	┈
	702			25 PART FLUX DET -ENC	1	U	JPL	MR64	İ	32		1 5 1			ŀ
l	900			RAD SCAN POS-DAS		U	JPL	MR64		32		0		<del> </del>	+
	1100			45 UV PHOTOMETER-DAS	<u>L</u>	U	JPL	MR64		32					1
	i l	1	1				I								+-

700	25 SOL PLAS PROG-DAS		JPL MR64	32	1	0	
	25 PART FLUX DET-GSE	lu,	JPL MR64	32	_ [ _ [	0	
701	25 PART FLUX DET-DAS	U	JPL MR64	32		0	
702	25 PART FLUX DET -ENC		JPL MR64	32	- 1	0	<b>!</b>
900	RAD SCAN POS-DAS	U.	JPL MR64	32		0	
1100	45 UV PHOTOMETER-DAS	u .	JPL MR64	32		0	1
1 1	1			1 1	1		ı
			<del></del>		+++		
	<b>!</b> [			1 1			
	MISC RADIOMETER DWGS	lul.	JPL MR64	32		0	
LO-G3	LO WAVEGUIDES RADIOM		JPL MR64	32		ŏ	!
L0-G22	LAYOUT CHASS #3		JPL MR64	32	+	0	
LO-G32	LO INFACE CHASSIS		JPL MR64	32	1 1	- 1	1
LO-G33	LO IR RADIOMIR INSTI		JPL MR64	32	-++	0	
LO-G36	CABLE ROUTING		JPL MR64		1 1	0	
L0-G100	LAYOUT CONN BRKT			32		0	
LO-G104			JPL MR64	32	1	0	
LO-G110	UV INSTLEPWR PACK LO		JPL MR64	32		0	
L0-6110	LO ADJUSTMENT ROD	U .	JPL MR64	32		0	
120123	XPONDER SUBASSY		10T MR64				
120148 B	OSCILLATOR RADIO		OT MR64	33 0			4300187
120159 B	FREQUENCY DIVIDER			33 0		(	0120123
120160 B	DETECTOR RADIO FREQUI		OT MR64	33 0	7 62	С	0120178
120168 3			10 T MR 64	33 0		Ċ	0120178
120170	FILTER SUBASSY LOW		IOT MR64	33 C		C	0120173
120170	CONVERTER FREQ ELECT		OT MR64	33 07		C	0120123
	AMPLIFIER INTER FREG		IOT MR64	33 07		C	0120178
	AMP 2 INTERMED FREQ		OT MR64		7 62	C	0120178
120173 B	FILTER LOW PASS		IOT MR64	33 07	7 62	c	0120123
120174 120175 d	AMPLIFIER DIRECT	UM	OT MR64	33 07	7 62	C	0120178
120175 8	OSCILLATOR RADIO	lu M	OT MR64	33 07		ć	012012
120176 B	FREGUENCY MULTIPLIER	UM	OT MR64	33 0		c l	012012
120177	FREQ MULTIPLIER		OT MR64	33 07		č	0120123
120178	XPONDER SUBASSY		OT MR64	33 07		-	4300188
120199 B	AMPLIFIER SUBASSY		OT MR64	33 07		ć	0120172
120310 A	CAVITY TUNED X7		OT MR64	33 07		<u> </u>	
120834 B	BLOCK MTG SUBASSY	UM	GT MR64	33 07		2	0120176
DENGTES CHANGE TO PREVIO		1011	C - 100 0 4 1	[22]07	:04		0120170 JPL 0513 JUNE

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DATE LISTED CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.
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	DRAWING NO.	0ATW	# £	TITLE	*	3	*1 ×00 F	#4JOR (1504	BEAR.	011E	DRAWING CONTROL STATUS		NEXT ASSEMBLY	İ
_	120855		3-	FREG CONVERTER LOWER	ř	ů.	мот	MR64	33	107 62	- [		0120170	t
:			1	FREQ CONVERTER SUBAY		ŭ	MOT	MR64		67 62			0120170	ı
	120856		├	PLUS 6 VDC RECTIFIER	-	ŭ	MO T	MR64	33	1-1-1	-5			†
	121924		1			1:	MOT	MR54	33		5		1	ì
_	121928		ـ	- 6 VDC RECTIFILR CAVITY FUNED X4	-	نا	MOT	MR64	33	107 102 1	- <del>č</del>		0120177	i
	122726					1		MR64		07 62	-		0120310	
_	220126		↓_	NUT PLAIN HEXAGON	+-	U		MR64		07 62			0120310	1
	320127			SCREW TUNER CAVITY		Ľ	_	1 1	33	07 62	,		0122726	
_	320127		1_	SCREW FUNER CAVITY	⊢	ĮŸ.		MR64		157 152			0120170	
	320280		į.	RETAINER THREADED	i .	U		MR64			7		0120178	
	420201		ļ	WASHER FLAT	╀	ĮŲ.		MR64		07 62	-		0120177	
	420202		1	WASHER FLAT	1	U		MR64	30	07 62	7		0120170	
<u>.</u>	520857		1_	GROMMET METALLIC	╀	10		MR64		07 52			0120123	
	720134		1	BRACKET CONNECTE MTG	1	U	MOT	MR64		07 62			0120178	
	720137		1	BRACKET CONNECTE MTG	ļ.,	Ü		MR64	33				0120170	
	720262			BRACKET RETAINER	ł	نا		MR64	1	1 1 1	6		0120173	
	820219			CAPACITOR FIXED PLAS	1	ĮŲ		MR64	33		- =		0120173	
	1420136		ı	INSULATOR PLATE	1	U	MOT	MR64			- è		0120174	
	1420202		L	INSULATOR PLATE	1	U	MOT	<del></del>	11.				0120174	
	1420221	Α		INSULATOR BUSHING		U	1	MR64		07 62	<u>C</u>		0120123	
	1420277		Ļ.	INSULATOR XFORMER	╄	U	MOT		وو.					
	1422730	Α		INSULATOR CONTACT		U	1	MR64		07 62	L		0120310	
	1422730	Α	L	INSULATOR CONTACT	1-	U	MOT			07 06	C		0122726	
	1422733	Α		INSULATOR		U	MOT			07 62	4.		0120=10	
	1422733	Α	1.	INSULATOR	1	Ų	MOT	MR64		07 62	<u> </u>		0122726	
,	1422750	В	Т	INSULATOR CAV		U	MOT	MR64	133		(		0122726	
i	1520133	В		HOUSING XPONDER	1	Ų	MOT	MR64	23				0120178	
	1520206	Α	T	HOLDER CRYSTAL UNIT	1	J	MOT	MR64	133		G .		4822700	
)	1520279	Α	L	COVER DUST	1	IJ		MR 64	123				0120170	
	1520296	Α	Т	SHELL TUNED CAVITY	i	U	MO1	MR 54	133		Ć		0120176	
,	1520306			SHELL TUNED CAVITY	L	_lu	MOT	MR54		.la7!62.			0120177	
	1522143	D	Τ	HSG SUBCHASSIS	1	ΙU	MOT	MR54	33	1 1 1	i i		0121928	
	1522144	Ď		HSG SUBCHASSIS	1.	ندل		MR64	تدل	4			0:21928	
)	1522736	1	Т	SHELL CAVITY SUBASSY	1	U		MR64		07 62	(		0120210	
	1522736			SHELL CAVITY SUBASSY		Ų		MR64	فافل				0128720	
	2420142	В		XFORMER RADIO FREQ		į		MR64	133		ı (		4620138	
				XFORMER RADIO FREG	i	از		MR64	1 : 3				4620863	
Ė	2420144		$\top$	XFORMER PADIO VCD 13		L	MOT	MR64	133	1 1	(		4620863	
	2420145			XFORMER RADIO VCO 14	.	1	MO"	MR64	. 23	10, 10,		-	4620863	
-			+	XFORMER RADIO FREG	1	I	MOT	MR 64	133	6 162			4620863	5
ċ			-	XFORMER RADIO FREQ	1	-14	l Mor	M864	133	67 63	1		4620113	

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	DRAWING NO.	3 A S H	0 to 1	TITLE	1	3	\$4 mag 4	MAJOR TEN	\$7 C.	**************************************	DRAWING CONTROL STATUS	MEXT ASSEMBLY
-	2420154	В	+-	XFORMER RADIO FREG	†-	U	MO:	MR64	1331	07 62	<	0120159
	2420155			XFORMER RADIO FREQ		J	MOT	MR64	133	07  62	- C	4620150
	2420156		_	XFORMER RADIO T5	Т	Ū	MOIT	MR64	33	07 67		4620151
	2420157			XFORMER RADIO 16		U	MOT	MR54	33	57 62	5	4620152
-	2420165	В	+	XFORMER RADIO 13	i-	ĪŪ	MOT	MR64	133	07 62		4620162
	2420166			XFORMER RADIO T4	1	lu	MOT	MR64	33	07 52	C .	0120160
	2420167		+	XFORMER RADIO FREG	1-	Ū	MOT	MA 64	133	07 62		0120160
	2420183			XFORMER RADIO 12		Ιù	мот	MR64	33	07 62	< 1	4620179
-	2420185		+	XFORMER RADIO 14	+	ΙŬ	MOT	MR64		57 32		4620181
	2420185		1	XEORMER RADIO 14	1	lu.	MOT	MR64	ووا	07 62	C .	4620854
-	2423196		+	XEMR RADIO FREG	+-	tů	MOT	MR64	33	57 67	7	0120199
	2420197	1 -	1	XEMR RADIO FREQ		Ū	MOT	MR64	33	07 62	- C	0120199
	2420198		+-	XEMR RADIO FREG	+-	tū	МОТ	MR64	33	07 62		0120199
	2420381		1	XEMR RADIO FREQ		Ιū	MOT	MR54	133	07 62		0120170
÷	2420382		+-	XEMR RADIO FREU	+	tũ	MOT	M264	133	tăr telî t		0120855
	2420383			XEMR RADIO - REG		ľů	MOF	MR64	100	15/16/1		0120170
	2420384		+	COTE RADIO FREG	╁╴	tü	MOT	VR 64	33	07 6.		0120856
	2420820		į	XEMR RADIO FREG	ı	ŭ	мот	MR64	199	0 / 62		0120177
-	2420821		+	XEMS RADIO FREQ		tř	MOT	MR64	133	07 62	C	0120177
	2420827		1	XEMR RADIO FREG		Ĭ,	мот	MR64	133	07 62	- P	0120176
	2420828		+-	XFMR RADIO FREQ	1	tř	MCT	MR64		07 62		0120176
	2420831		1	COIL RADIO FREQ	1	Ĭŭ	MOT	1	133	07 62	(	4620823
-	2420836		+-	XEMR RE FREQ	+-	Ŧñ.	MOT	MR64	133	15/162		0120834
-	2420837			COIL RE FREG CONVERT		lü	MOT		1.3	07/62	- [	0120654
	2420841		+	COLL RADIO FREG	+-	tü	MQ T	MR64	155	tă i taa t		0120148
	2420850		1	COIL RADIO FREQ	İ	10	MOT	1	133	07 62		0120175
-	2420864		+-	XFMR RADIO FRED VCO	+	廿	Mor	MR64	133	102		4620863
•	2425202		1	KEME RADIO FREQUENCY	1	li,	MOT		33	07 621		4620186
-	2425213		+	COTE RADIO FRED VARI		Ŧĭ,	MO T		33	07 62		0120176
	2425214	I -		COLL RADIO FREQUENCY		l.	MOT	1 1	133	07 62	- č - 1	0120171
-	2425216		+	XEMR RADIO FREQUENCY	+-	٠ŧ٠	MOT	+	33	0.7 6.2	<del></del>	0120175
-	2425217	1 -	ı	XEMR RADIO FREQUENCY		1	MOT	1 1	133		- c	0120175
-	2425220		+-	COL RAD FREQ DIVIDE		Ĭŭ	4	MR64	3 3	07 62		0120159
	2425224			XEMR RAD FREG CONVER		10	MOT	1 1	133	07 62	- č	0120514
-	2522710		+-	FILTER BAND PASS CRY		Ť	MOT		155	107 152 1		10120172
	2720100			CHASS ELECT EQUIP	1	٦ĭ	1	MR64	33	67 62	1 5 1	0120148
-	2720104		<del> </del>	CHASS ELECT EQUIP	+-	10	MOT		- 135	157 f62 f		0120171
	1		1	CHASSIS ELECT EQUIP		11	1	MR64	33	57 62		0120159
-	2720108	B .	<del></del>		+-	42		MR64	-+			0120150
-	2720116	8		CHASS ELECT EQUIP		10		MR 64	133			0120172

R	AWING	LI	S T	CALIFORNIA IN MARINER									PAGE	3.3	4-12-6
	DRAWING NO.	8+5H HO.	9 1	TITLE	CHE	2577	¥ ENDO1	BELEA MAJOI SEPIAL	11 108 1 175# 7m80 818.	951P. 91V.	#0,	111	DRAWING CONTROL STATUS		NEXT ASSEMBLY
	2720121	В	Т	CHASS ELECT EQUIP		U	MOT	MR64		33	0.7	62	C		0120173
	2720129	В	<del> </del>	CHASS ELECT EQUIP	ļ_	U	MOT	MR 54		33	07	62	<u> </u>		012017
- 1		В	1	CHASS ELECT EQUIP	1	U		MR64		33	07	62	C		0120176
-	2720131	В	1	CHASS ELECT EQUIP	⊢	U		MR64		33		62	C		0120174
- 1	2720132	В	1	CHASS ELECT EQUIP	1	U		MR64		33	07	62	C		0120170
	2720158	В	╀	CHASS ELECT EQUIP	+	Ų.		MR64		33	07		C		0120175
- 1		A	ł		1	U	MOT	MR64		33	07	62	C		0120123
_1		В	╄-	CHASS ELECT EQUIP	╀	U		MR64		33		62	<u> </u>		0120170
		В		CABLE ASSY RF	1	U	MOT	MR64		33		62	C		0120123
-+		B	$\vdash$	CABLE ASSY RF	$\vdash$	U		MR64			07		<u> </u>		0120178
- 1		В		CABLE ASSY RF		U		MR64		33	07		C		012012.
-+	3020843	В	-	CABLE ASSY RF	⊢	IJ		MR64		33		62	<u> </u>		012017
- 1	3020844	В	1	CABLE ASSY RF W16W11		V		MR64		33		62	Ç		012012
-4	3020844	a c	╁	CABLE ASSY RF W16W11	+-	ĽŲ.	MOT	MR64		33	07		C		012017
- 1		В		CABLE ASSY	ł	U	MOT	MR64		33		62	Ç		012012
_	3020851	В	-	CABLE ASSY	<u> </u>	U	MOT	MR64		33	07		<u>c</u>		012017
- 1		В		CABLE ASSY		U,	MOT	MR64		33	07	62	C		012012.
-+		В	-	CABLE ASSY	-	U	MOT	MR64	l	33		62	C		012017
- 1		В		CONTACT ELECTRICAL		U	MOT	MR64		33		62	C		0120310
_		<u>B</u>	1	CONTACT ELECTRICAL CONTACT ELECTRICAL		Ų.		MR64		7.7	_	62			012272
- 1	3920222	A	i	CONTACT ELECTRICAL		U	MOT	MR64		33		62	C		0120316
-			1-		├-	IJ	MOT	MR64			-	62			0120856
	3920298 3920298	A		CONDUCTOR SECTION		U	MOT	MR64		33		62	Ç		0120310
		A	-	CONDUCTOR SECTION	⊢	Ų.	MOT	MR64		33	07		C		012272
- 1		A	1	CONTACT STRIP	l	U	MOT	MR64		33	-	62	Ć		012012
-+		A	+	CONTACT ELEC MXP LWR		Ų.	MCT	MR64				62	C		0120170
- 1	4220224	A	ì	RETAINER SEMICONDUCT		U	MOT	MR64			0.7		Ĺ		0120170
-		Α	-	ALIGNMENT DEVICE	<del> </del> —	U		MR64				62	<u> </u>		0120310
- 1		A	1	ALIGNMENT DEVICE	İ	U	MOT	MR64		33	-	62	C		012272
-	<u> →322746</u>	A	1	BUSHING CONTACT ELEC	⊢	U		MR64		33	ΩZ	62			012012
		В	1	BLOCK MTG SMALL VCO		U		MR64		33	~	62	Ç		4620138
		3	1-	B. OCK MIG XSISTOR	├-	U	MOT	MR64		33	<u></u> 2	62	C		462018
		B		BLOCK MIG XFORMER		U	MOT	MR64		33		62	Ç		462018
		<u>B</u>	1-	BLOCK MIG XFORMER	<b>├</b>	Ų.	MOT	MR64		33		62	<u> </u>		462015
		8		BLOCK MIG XFORMER	ţ	U	MOT	MR64		33		62	C		462015
		B	1	BLOCK MTG XFORMER BLOCK MTG XFORMER	+-	U	MOT	MR64		33		62	<u> </u>		4620169
- 1		-	1			U	MOT	MR64		33		62	(		4620179
-		3	╁╌┤	BLOCK MTG RF DET	┼	Ų.		MR64		33		62	<u> </u>		462016
- 1		В		BLOCK MTG XFORMER	1	U	MOT	MR64		33		62	C .		4620151
	4620111	ġ	_	BLOCK MTG XFORMER	_	U	MOT	MR64		ووو	67	62			JFL 0511 JU

R	AWING	L1	s T	. MARINER F	₹ .	64	NUM	ERICAL					PAGE	34	4-12-6	.3
	DRAWING NO.	941H 40.	1 5	TITLE	ģ.	CLASS	VIND64		10 FOR 13 EM 1400 SCB.	RESP. BIV.		TE	DRAWING CONTROL STATUS		NEXT ASSEMBLY	
	4620112	В	<b></b> -	BLOCK MTG FREQ	Τ	ti	MOT	MR64		33	07	62	C		4620150	T,
	4620113			BLOCK MTG XFORMER	_	U	MOT	MR64	<u> </u>	33	07	62	C		4620117	
	4620114		Ì	BLOCK MTG		IJ	MOT	MR64		33	07	62	C		4620163	
	4620117		L	BLOCK MTG FREQ SIVID	ļ	Ü	MOT	MR64		33	07	62	C		0120159	
	4620122			BLOCK MTG	ŀ	U	MOT	MR64		33	0.7	62	C		0120173	
:	4620122			BLOCK MTG		U	MOT	MR64		33	0.7	62	C		0120168	
- 1	4620124		Г	BLOCK MTG SECOND IF	П	U	MOT	MR64		33	0.7	62			0120199	
-	4620135	В	ļ	BLOCK MIG FREG	ł	U	MOT	MR64		33	Ç7	62	C		0120834	
	4620138		Г	BLOCK MIG VCO TI	Г	Ū	MOT	MR64		33	, -	62	C		0120148	ij
3	4620149	В		BLOCK MIG FREG DIVID		U	MOT	MR64		33	0.7	62	(		0120159	٠.
3	4620150	B	Г	BLOCK MIG FREG DIVID		U	MOT	MR64		33	07	62	C		0120159	
3	4620151	8		BLOCK MIG FREQ DIVID		U	MOT	MR64		33	0.7	62	C		0120159	
5	4620152	В	1	BLOCK MIG FREQ DIVID	П	U	MOT	MR64		33	07	52	C		0120159	ī
: 1	4620161	В	1	BLOCK MTG SUBASSY		ĺυ	MOT	MR64	ļ	33	0.7	62	(		0120160	
3	4620162	В	t	BLOCK MIG RE DETECTE	Ť	Ū	MOT	MR64		33	0.7	62	C		0120160	Ξ
	4620169	В	ļ	BLOCK MTG ADX OSC Q1		lυ	MOT	MR64	!	33	07	62	(		0120175	,
-	4620179	В	$^{+}$	BLOCK MTG AUX OSC Q2	t	U	MOT	MR64		33	0.7	62	C .		0120175	
	4620180	В	1	BLOCK MTG AUX OSC Q3		U	MOT	MR64		3.3	lo 7	62	c		0120175	
П	4620181	В	$\vdash$	BLOCK MTG AUX OSC Q5	†-	U	MOT	MR64		33	07	62	C		0120175	_
	4620186	В		BLOCK MTG FIRST		lu	MOT	MR64		33	07	62	c		0120171	
	4620203		A	BLOCK MTG ANGLE	1-	Τū	MOT	MR64		33		62	C		4620207	
	4620204	A	1	BLOCK MTG XSISTR LG		Ū	MOT	MR64		33	07		ا خ		4620255	
_	4620204	-	Ā	BLOCK MTG XSISTR LG	✝	ŭ	мот	MR64		33		62	(		4620207	
	4620205	Δ	l	BLOCK MTG XFMR		Ű	MOT	MR64	-	33		62	ē l		0120123	
	4620207		+-	BLOCK SUBASSY MTG	✝	Ĭ	MOT	MR64		33	<del></del>	62			4620823	_
	4620207		1	BLOCK SUBASSY MTG		10	MOT	MR64		33	67	62	č l		4620815	
	1620207		⊢	BLOCK SUBASSY MTG	╁	Hi	MOT	MR64		33	0.7	62			4620825	
	4620209	_	4	BLOCK MIG KSISTR		Ĭ,	MOT	MR54		33	27	62	ž l		4620207	
	4620223	^	10	BLOCK MOUNTING DIODE	+-	Τŭ	MO	MR64		33	07	62	č		0120855	
'	4620254			BLOCK MTG AGC AMPL		Ľ.	MO -	MR64		33	07	62	č		4620255	
_		A	1	BLOCK AGC AMPL	╁	1U	MOT	MR64		33	37	62			4620845	
ĺ			1	BLOCK AGC AMPL		12	MOT	MR64		33	l -		ا ن		4620846	
_	4620255		-			V.	MOT	MR64		33	0.7	62	<del></del>		4620847	
	4620255		ĺ	BLOCK AGC AMPL		1 -		-			07	62	- 1			
	4620255		ļ	BLOCK AGC AMPL	₽	U	MOT	MR64		33	07	62	C		4520644	
	4620255			BLOCK AGC AMPL		10	_				0.7	62	c		4620849	
	4620316		ļ.,	BLOCK MIG XFMF	╀	U	MOT	MR64		33	07	62	- C		0120173	
	4620815			BLOCK MTG FREQ MULT	1	U	TOM	MR64	1	33	0.7	62			0120177	
	4620818		↓_	BLOCK MIG FREG MULT	₽-	Ų	MOT	MR64		33	0.7	52			0120177	_
	4620822			BLOCK MIG FREG MULT		U	MOT	MR64	1	33		62	Ç		0120177	
.	4620823	В	1	BLOCK MIG FREG MULT	_	U	MOT	MR64		33	0.7	52	C		10120176	۷.

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	4620825			BLOCK MIG FRED MULT	1	lũ.	1 -	MR64	33	01 62			0120176	
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-	4620845		1	BLOCK MIG AMPL		10	мот	MR64	33				0120174	
-	4620846		+-	BLOCK MIG AMPL	1-	Ü		MR64	133	07 67			0120174	1
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-	4620863		1	BLOCK MTG SUBASY VCO	1	Ū	MOT	MR64	33	5 7 62	1.		0120148	Т
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-	4625203		+-	BLK MIG MIL KSISTR	$^{+}$	Ťű		MR64		07 62			4625204	
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-	4625206		+-	BLK ASSY MOUNTING	t	ŧΰ		MR 6.4		07 32			0120171	
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-	5320802		+-	CONVERTER FRED SCHEM	╁╌	fΰ		MR5.4		0 1021			0120170	
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٠	5320808		1	AMPLIFIER DIREC SCHM	1	U	MO-	MR 5-4	3.5	10. 100	-		0120174	
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C 449102 SWITCH HIGH LEVEL U TI MR64 33 0 457763 B 449103 PCB LO LEVEL SWITCH U TI MR64 33 0 449104 C 449104 SWITCH LOW LEVEL U TI MR64 33 0 460073 C 449104 SWITCH LOW LEVEL U TI MR64 33 0 460073 C 449104 SWITCH LOW LEVEL U TI MR64 33 0 457789 B 457738 A GROMMET TEFLON #1 U TI MR64 33 0 457782 B 457739 GROMMET TEFLON #2 U TI MR64 33 0 449104 B 457740 A INSULATION SH ELECT U TI MR64 33 0 457782
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B 457739   GROMMET TEFLON #2   U T1 MR64   33   0   449104 B 457740   A INSULATION SH ELECT   U T1 MR64   33   0   457782
B 457740 A INSULATION SH ELECT   U T I MR64   33   0   457782
B 457740 A INSULATION SH ELECT   UTI MR64   33   C 449104
C 457744 A SHIELD SWITCH   U II MR64   33   0   457782
C 457744 A SHIELD SWITCH U 1 MR64 33 0 449104
F 457762   PCB DECKS CGD   U T 1 MR64   33   0   457763
D 457763   SOLID STATE DKS C6D   U 1! MR64   33   0   460805
F 457768   PCB DECKS A6B   U1: MR64   33   C   457769
D 457769   SOLID STATE DKS A6B   UTI   MR64   33   0   460805
B 457770   SCHEM SW LOW LEVEL   UTT   MR64   33   0   449104
3 457775 PCB UNIV BISTABLE #1 UTL MR64 33 0 457777
B 457776   PCB UNIV BIS ABLE #2   U   1 MR64   33   0   457""
C 457777 A UNIV BISTABLE MODULE U TI MR64 33 0 460892
C 457777 A UNIV BISTABLE MODULE UTI MR64 33 C 460073
C 457777 A UNIV BISTABLE MODULE   UTI MR64 33 0 460023
C 457777 A UNIV BISTABLE MODULE   U I   MR64   33   C   457763
C 457777 A UNIV BISTABLE MODULE   U TI MR64   33   0   460894

C 457777 A UNIV BISTABLE MODULE U TJ MR64 33 0 460025 - DENOTES CHANGE TO PREVIOUS LIST JPE 0513 JUNE 61

	AWING			MARINER !				HNOLOGY, PASA ERICAL	DENA,	CALIF.	FAUL	39	4-12-6	
ì	DRAWING NO.	9418 90,	31	TITLE	ŧ	117	VE WOOD	BILITATE FOR	FEST.	PELEASE	DRAWING CONTROL STATUS		NEXT ABSEMBLY	_
: 1	457777		A	UNIV BISTABLE MODULE	t	lu	ŤΙ	MR64	33	10	0		460037	-
:	457777		Α	UNIV BISTABLE MODULE	ŀ	lu	7.1	MR64	33		ŏ		460049	
╗	457777		A	UNIV BISTABLE MODULE		Ū	TI	MR64	33		0	-	457769	
:	457778			SCHEM UNIV BISTABLE	1	lu	TI	MR64	133	i	ō l		457777	
	457779		T	SCHEM HI SPO BINARY		ĺυ	TI	MR64	133		0		457777	
3	457780			PCB SW FLIP FLOP LO	1	ΙŪ	TI	MR64	133		ŏ		457782	
П	457781		T	PCB SW FLIP FLOP UP	$^{-}$	ΙŪ	TI	MR64	133	1-1	3		457782	
: [	457782		ļ	SWITCH FLIP FLOP		U	TI	MR64	33		ō		457763	
. 1	457782			SWITCH FLIP FLOP	1	Ťυ	TI	MR64	133		0		460899	
:	457782			SWITCH FLIP FLOP	1	lu	TΙ	MR64	33		Ö		457769	
Π	457783		Т	SCHEM SW FLIP FLOP	Т	U	ŤΙ	MR64	33		ō		457782	
٠	457788			PCB DECKS E&F	l	lu	TI	MR64	33		o I		457789	
7	457789		1	LO LEVEL SWS DKS E&F	1	TŪ	TI	MR64	33		0		460806	-
١	457790			SCHEM LO SPEED CTR	l	U	TI	MR64	33		ō l		460037	
: 1	457790		1	SCHEM LO SPEED CTR	✝	ŭ	TI	MR64	- 33		0		457789	-
1	457795		1	PCB AMPL LOW BAND	l	ű	TI	MR64	33		ŏ		457796	
╗	457796		$\vdash$	AMPLIFIERS LOW LEVEL	t	Ü	TI	MR64	33		ŏ		460807	_
١	457797			SCHEM AMPLS&SIG COND	l	Ū	TI	MR64	33		o l		460083	
	457797		-	SCHEM AMPLS&SIG COND	1-	ŭ	TI	MR64	33		0		457796	_
П	460005			PCB MATRIX PN GEN LO	1	Ü	T.I	MR 64	133		ŏl		460007	
. 1	460006		$\vdash$	PCB MATRIX PN GEN UP	T	ĬŬ	ΤĪ	MR64	33		0		460007	
١	460007		1	MAIRIX PN GENERATOR	1	ú	ΤI	MR64	33		ŏ		460073	
1	460008		1	SCHEM MATRIX PN GEN		ŧ	TI	MR64	33		o I		460007	-
.	450009			PCB LC SPEED CTR LOW		ľ	ŤΪ	MR64	33		ō l		460011	
1	460010			PCB LO SPEED CIR UP	$\overline{}$	ŭ	ΓI	MR64	33	1 1	5		460011	
1	460011			MATRIX LO SPEED CTR		ľű	ΤĪ	MR 54	33		o l		460037	
1	460012			SCHEM LO SPEED CTR	1	Ĭij	11	MR 64	33		5		460011	
ł	460022			PCB BLIP REGISTER #1		ŭ	ΤĪ	MR64	33		ă l		460023	
1	460023			BLIP REGISTER #1	1	ŭ	7.1	MR64	133		ő		460803	
1	460024			PCB_BLIP_REGISTER #2		ľű	ΤĪ	MR64	وَوَا		ő		460025	
1	460025			BLIP REGISTER #2	1	Ü	ΤĪ	MR64	3.5		o o		460803	9
1	460026			SCHEM BLIP REGISTER		lu	ii	MR 54	ققا		G I		460023	
7	460026			SCHEM BLIP REGISTER	T	ľű	TI	MR641	33		0		460025	
ļ	460027		1	PCB BUCKING PWR SUP		ľ	ΤĪ	MR64	33		0		460028	
7	460028		1	BUCKING POWER SUPPLY	1	U	TI	MR 54	33		ŏ		460804	
	460029		1	SCHEM POWER SUPPLY	1	ű	ΤÌ	MR64	33		0		460028	
1	460036		T -	PCB LC SPEED COUNTER	<del>                                     </del>	U	ΤĪ	MR64	- [33]	: : : : : :	0		460037	
М	460037			LOW SPEED COUNTER	1	ľ	TI	MR64	33		0		460806	
1	460046		1	MONOSTABLE FLIP FLOP	t -	Ĭŭ	ΤĪ	MR64	133	1	ŏ		460049	
	460048			PCB MASTER COUNTER		ľů	ΤĪ	MR54	33		ŏ		460049	

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٠	D4	NOTE	\$	CH	AM	SE	10	PREVIOUS	LIS

		INIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.		DATE ::STE	C .
DRAWING LIST	11FAM	NER R 6± NUMERICAL	FAGE	40 4-12-6	۹.
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Ĭ	DRAWING NO	915# #U.	3 5		5	3	41×000	## ## # ## ## ## ## ## ## ## ## ## ## #	1 100	11.415g 545g	FAWING FONTROL STATUS	NEXT ASSEMBLY	3
)	460049		T	COUN'ER MASTER		Ľ,	ΤI	MR64	33		0	460802	+
	460061			SCHEM MA LIRGXFR REG	l . I	U	Ŧ.1	MR64	3.3		ō l	460899	
	460061		Ī	SCHEM MA LIREXER REG		Ų	ΤI	MR64	3 3		ó	460049	t
	460062			SCHEM DECKS ASS CSD	1 1	U	TI	MR64	53		ō l	457763	
	460062			SCHEM DECKS AGB CGD	1-1	ü	ΤI	MR64	53		3	457769	t
•	460069			HEAT SINK PWR SUPPLY	1 1	U	ΤI	MR64	33		o I	460804	
Ī	460072			PCB PN GENERATOR		U	ΤI	MR64	133	1	0	460073	+
	460073		1	PN GENIFREGGMOD CKTY	1 1	Ų	ΤI	MR64	<u></u>		0	460801	1
	460074			SCHEM PN GENERATOR	T	J	ΤI	MR64	.33		5	460073	+-
	460075		1	PCB POWER SUPPLY	1 1	IJ	ŤΙ	MR64	إفروا		0	460076	1
ij	460076			POWER SUPPLY	П	IJ	T1	MR64	: 23		0	460804	1-
	460082	_		PCB COMP ISOL AMPL	1 1	IJ	T1	MR64	[33		0	460083	-
	460083		Γ	COMPARATOR ISOL AMPL		U	Τi	MR 64	33		0	460807	†-
١	460084			SUBCHAS SINGLE CONN	ΙÌ	U	Τi	MR64 1	3.3		0	460800	
	460084			SUBCHAS SINGLE CONN		Ū	TI	MR 64	33		0	460801	t
	460084			SUBCHAS SINGLE CONN		IJ	1.7	MR54	33		0	460802	
	460085			SUBCHAS DOUBLE CONN	1	U	TI	MR54	3.3		0	460803	+
	460085			SUBCHAS DOUBLE CONN		U	ΤI	MR64	133		. 0	460805	
٦	460085			SUBCHAS DOUBLE CONN		U	TI	MR64	33		5	460806	†-
	460085			SUBCHAS DOUBLE CONN		Ú.	т:	MR64	33		0	460807	1
	460086			SUBCHAS POWER SUPPLY		ij	71	MR64	33		5	460804	t
	460800			ANALOG-TO-DIGIT CONV		U	1.1	MR64	3.3		ŏ	4600322	
1	460801			PN GEN FREGSMOD CKTY		Ū.	T!	MR64	33	1 1 1 1	2	4600325	t
	460802			TRANSPER REGISTER	li	IJ	1.1	MR 64	3.3		ŏ l	4600327	1
٦	460803		T	BLIP REGISTERS		Ü	ŦŢ	MR64	133		- <del>0</del>   -	4600326	1
Į	460804			POWER SUPPLY		J	7.1	MR64	ا ۾ وا	'	ō	4600329	1
Ī	<b>460805</b>		П	SOLID STATE DKS ABCD	$\Box$	U	I T	MR64			- 5	4600325	+
	460806			SOLID STATE DKS E&F	1 1	Ų,	1.5	MR64	66		5	4600324	1
1	460807			AMPLIFIERS		Ū.	~ I	MR64	133		3	4600323	1
۱	460817			MARKING POWER SUPPLY	1 1	U	- I	MR64	33		o	460036	i
1	460813			MARKING PN GENERATOR	1	Ū.	- :	MR64	33		0	460084	•
1	460819			MARKING BLIP REGS		u	7.1	MR64	] 3 3 ]		ă	460085	
1	460820		1	MARKING TRANSFER REG		U	ΤI	MR64	33		3	4600 44	٠
1	460821			MARKING DECKS ABOD		u	7 I	MR64	33		ō l	4600 5	i
1	460822			MARKING DECKS E&F		U.	F ]	MR64	ا و و	1 1	ō	460085	:
1	460B23			MARKING AMPLIFIERS		Ū	TI	MR 64	33.			460085	1
1	460824			MARKING CONVERTERS		U	Ti	MR64	133	: : - :	ŷ - · · ·	460084	÷.
Į	460891			PCB COMPARATOR		ı,	7 .	MR 5 4	1391		2	460892	į
1	460892		†	COMPARATOR & INTEGRA	† †	, i	Ť	MR54	1,00		ŏ	460800	
1	460893			PCB DECOUER			: 1	MR 644	15.1		č	460894	:
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R	AWING	i L1	S 7	MARINER B						ENA, C	ALIF.	•	PAGE	41	4-12-63	
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$\overline{}$	460894	-	+	DECODER	-	Ū	ŤΙ	MR64	7#RV SES.	33	¥0.	112	O .		460800	H
	460895	ŀ		SCHEM CONVERTER		Ιŭ	Ìτί	MR64		33			ŏ		460892	l
	460895		1-	SCHEM CONVERTER		Ū	ΤI	MR64		33		1	ŏ		460894	t
Н	460897			BIPHRASE MODULATOR		Ū	TI	MR64		33			ō I		460801	ł
٦	460898		T	PCB TRANSFER REGIS	_	Ü	ΤÍ	MR64		33		1	0		460899	t
,	460899			TRANSFER REGISTER		Ū	1.1	MR64		33			ŏI		460802	l
	461701		T	WIRING LIST BLIP REG	_	ΰ	ŤΙ	MR64		33			ŏ		460803	t
.	461702			WIRING LIST CONVERT		υ	ΤI	MR64		33		!	o l		460800	ļ
٦	461703		1	WIRING LIST PN GEN		Ū	TI	MR64		33		!	ŏ		460801	t
	461704		l	WIRING LIST TRAN REG		Ų.	ΙŢ	MR64		33		_			460802	1
Ī	461705		Ţ-	WIRING LIST PWR SUP		U.	ΙŢ	MR64		33			0		460804	Ī
_	461706		1_	WIRING LIST DKS ABCD		U	I T	MR64	_	33			ol		460805	ļ
1	461707		1	WIRING LIST DKS E&F		U	ΤI	MR64		33			0		460806	Ī
	461708		┖	WIRING LIST AMPLS		U	TI	MR64		33			0		460807	ŧ
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G. Mariner R 1964 Drawing List: Flight Numerical by Division

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	DRAWING NO.	# # # # # # # # # # # # # # # # # # #	# :	TITLE	į	4	410000	BAJO	MC 708	BIEP.	941	•	DRAWING CONTROL STATUS		MEXT ASSEMBLY	T
	123638		Ε.	AND CYC ENCORED	۳			BESIAL	THEU SEP.		HQ.	74.				4
3	123635		1	L-BAND SYS ENCODER		U	JPL	MR64	İ	31			0		i	1
-			₩	L-BAND SYS L-BAND	٠.	Ų	JPL	MR64		31	$\vdash$	-			<del> </del>	4
	123636			L-BAND SYS COMMAND		U		MR64	1	31		1	0		-	
_	123637			L-BAND SYS POWER	┺	U	JPL	MR64		31			0		ļ	
П	123639			L-BAND SYS ATT CONT		U	JPL	MR64		31		ì	0		i	
1	123640		1	L-BAND SYS WIRING	1	U	JPL	MR64	Ι.	31		- }	0		1	
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	123642			COMMAND SYS CC&S	l	Įυ,	JPL	MR64		31		ı	0		1	
1	123643			COMMAND SYS ENCODER	T	U	JPL	MR64		31			0		†	_
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7	123645		H	COMMAND SYS ATT CONT	t	Ū	JPL	MR64		31	-	_	ō 1			-
1	123646			COMMAND SYS SCIENCE	ł	Ιū		MR64		31	1	ł	o l		i	
1	123647		-	POWER SYS POWER	✝	ŭ	JPL	MR64		31			~~~		<del> </del>	-
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			1	POWER SYS ENCODER	ı	U		MR64		31	- 1	- 1	0			
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	123653			POWER SYS PYRO	İ	Ü		MR64		31	- 1	- 1	0			
	123654		L	POWER SYS WIRING	L	U	JPL	MR64		31			0		l	_
	123655		li	SYSTEM	l	U	JPL	MR64		31	j		0			
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ï	123657			SYSTEM	T	u	JPL	MR64		31	-		0		1	_
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1	123659		Н	SYSTEM	$^{-}$	Ιŭ	JPL			31		_	ō		<del>                                     </del>	-
	123660			CC&S SYS ENCODER	[	Ιŭ	JPL			31	į	- 1	ŏ			
-	123661		Н	CC&S SYS A/C	╁	lŭ.	JPL	MR64		31		-+	<del>- 6</del> - +			-
	123662			CC&S SYS A/C	ı	Ĭŭ.	JPL	MR64		31	į	- 1	0			
-	123663			CC&S SYS PYRO	╂─	۱ř	JPL	MR64		31	-	-	0		<del> </del>	-
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			1	CCGS SYS SCIENCE	1	U		MR64		31	- 1		0			
4	123666			ENCODER SYS A/C	↓_	U.		MR64		31			<u> </u>		ļ	_
	123667		li	ENCODER SYS A/C	1	ļυ		MR64		31	- 1	- [	0			
_	123668		Ш	ENCODER SYS PYRO	L	U		MR64		31			0			_
	123669			ENCODER SYS WIRING	1	U		MR64		31	- 1	- 1	0			
J	123670			ENCODER SYS WIRING	L	U		MR64		31	1		0			_
	123671			ENCODER SYS PROPULSN	Г	U	JPL	MR64		31			0			_
	123672			ENCODER SYS THERMAL	1	U	JPL	MR.64		31	- 1	- 1	0			
1	123673			ENCODER SYS THERMAL	1	Ū	JPL	MR64		31		- 1	0			_
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3	123675		Н	ENCODER SYS RADIOMTR	1	ΙŪ	JPL	MR64	31	<del>-~</del>	1	0		<del>                                     </del>	+
3	123676			ENCODER SYS PARTICLE	l	lυ	JPL	MR64	31			0			1
3	123677			A/C SYS A/C	Г	U	JPL	MR64	31			0			1
1	123678			A/C SYS A/C	1	U	JPL	MR64	31		!	0		l	1
,	123679			A/C SYS A/C		U	JPL	MR64	31			0		1	_
ď	123680		!	A/C SYS WIRING	1	lυ	JPL	MR64	31	1	ļ ļ	' 0		i	
	123681		1	SYS	Т	lυ	JPL	MR64	31	-		0 1		·	٦
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	123684			PYRO SYS PYRO	!	Ιū.	JPL	MR64	31	1	1	ō			
٦	123685			SYSTEM	Γ-	U	JPL	MR64	31		,	0		1	-
1	123686			WIRING SYS WIRING	ı	lū	JPL	MR64	31			o l		1	
	123687			SCIENCE SYS	Ι-	Ū		MR64	31			Ö		1	
	123688		H	SCIENCE SYS MAG		ΙŪ		MR64	31			ō l		ļ	
1	123689		Н	SCIENCE SYS MAGNOT	-	Ū	JPL	MR64	31			0			-
	123690		H	SCIENCE SYS PLASMA		Ιŭ		MR64	31	1	ll	ō l		ŀ	
1	123691		1	SCIENCE SYS COSMIC	┪	ĺΰ		MR64	31	_	Н	0		†	-
	123692		П	SCIENCE SYS PARTICLE.	ı	Ĭŭ.		MR64	31	1		.o l			
1	123693		t	SCIENCE SYS RADIOMIR	H	Ü		MR64	31	-		0		1	-
	123694		П	SCIENCE SYS SCIENCE	l	انا	JPL	MR64	31		! [	ŏ			
	123695		1	SCIENCE SYS SCIENCE	Г	U		MR64	31			0		· · · · · · · · · · · · · · · · · · ·	_
	123696		П	SYSTEM		υ		MR64	31		1 1	ŏ			
1	123697		1	MAG SYS MAG	┪	Ŭ		MR64	31		-	Ö			-
ł	123698		П	MAG SYS MAG	ı	Ιŭ		MR64	31	!	1 1	ŏ			
1	123699		Н	PARTICLE FLUX ION	₩	ŭ		MR64	31	-	├	ŏ			-
1	123700		П	WAVEGUIDE DATA	1	ŭ		MR64	31						
1	123701		Н	POWER	-	ŭ		MR64	31		-	Ö			-
ı	123702			WAVEGUIDE DATA	ŀ	Ιŭ		MR64	31			ő			
1	123703		$\vdash$	WAVEGUIDE DATA	╌	Ü		MR64	31	-	┝─┤	0 1			-
Į	123704			WAVEGUIDE DATA	l	ŭ	JPL	MR64	31			8		l	
1	123705		1	WAVEGUIDE DATA	-	ŭ		MR64	31		-	0		·	-
Ì	3157763		1	SERVO SPEC CONTROL		lυ		MR64		11	62	Y I		3157765	
	4100311		$\vdash$	RING MT OMNI ANTENNA	-	Ü		MR64		01		- J		4101025	
				TUBE SUPERSTRUCTURE	1	Ü		MR64		01		J		4101024	
	4100340			TRUSS SECTION 3 ASSY	$\vdash$	Ü		MR64		01				4101002	
	4100341			FITTING TRUSS SEC 3	l	υ		MR64		01		5		4100340	
	4100342			FITTING TRUSS SEC 3	⊢	Ü		MR64			63	<del>- j -  </del>		4100340	
	4100351			FITTING TRUSS SEC 1	l	U		MR64		01		j		4101024	
	4100352			FITTING TRUSS SEC 1	-	U						J			_
	4100352			FITTING TRUSS SEC 1	1	4 - I		MR64	31		63			4101024	
_	HOTEE CHANGE TO					U	JPL	MR 64	121	01	63	j		JPL 0513 JUN	

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7	DRAWING NO.	841# 80.	1:	TITLE	:	ij	V1 1000	PELEAS GAJOP	17 EM	uere.		1014	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
┪	4100354		A	BRKT-INFRA RED SHILD	H	Ü	JPL	MR64	1 H BU SEE.	31	01	63	J		4101024	t
	4100355			GUSSET TRUSS SEC 1	ŀ	ľů	JPL	MR64		31	οī	63	j l		4101024	I
	4100358			FITTING TRUSS ASSY		Ū	JPL	MR64			01		Ĵ		4100360	1
ļ	4100359			FITTING TRUSS LOWER	•	lu	JPL	MR64		31		63	j		4100360	
1	4100360		A	TRUSS SECTION 2 ASSY	Г	Ü	JPL	MR64		31	01	63	J		4101002	•
ı	4100370		В	PLATE . ASSEMBLY		lυ	JPL	MR64		31		63	j j		4101002	
1	4100371			JOINT PLATE SUPERSTR	t	Ū	JPL	MR64		31	01	63	-j		4100370	•
١	4100372		Α	JOINT PLATE SUPERSTR	ı	υ	JPL	MR64		31	01	63	J		4100370	
1	4100446		A	BRKT , TRUSS SECT 11	Г	Ü	JPL.	MR64		31		63	J		4100360	•
I	4101023			FITTING TRUSS SEC 1		U	JPL	MR64		31	01	63	J		4101024	
1	4101024		$\top$	TRUSS SECTION 1 ASSY		Ū	JPL	MR64		31		63	J		4101002	•
İ	4200004		A	SHIELD LIGHT ADJ #1	ı	U	JPL	MR64		31		62	j		4200002	
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	DRAWING NO. BASE	1	TITLE	1	3	******	#	tese.	BELVESE DATE BO. 19.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	-
	61001	+	WIRE-CODE-COLOR&FUNC	$\vdash$	Ü	ccc	MR64	32	WG. 19.	0			-
	61002	-	FLIP FLOP SCHEMATIC	1	Ιŭ		MR64	32		Ō			
	61003		EMITTER FOLLOW SCHEM	Г	U	CCC	MR64	32		0		1	
	61004	$\perp$	POWER ON RESET SCHEM	L	U		MR64	32		0		ļ	
	61005		REF SUPPLY SCHEMATIC	Ì	Ų		MR64	32		0		1	
	61006		RESET AMPLIF SCHEM	_	U		MR64	32		0		1	
	61007	1	CRD GATE SCHEMATIC	ŀ	U		MR64	3.2		0			
	61008	4-	AND GATE SCHEMATIC	┡	U		MR64	32	<u> </u>			-	_
	61009	- [	A7D CONV COMP SCHEM		U		MR64 MR64	32		0 0		i	
_	61010		AID CONV COMP SCHEM	╁	U	CCC	MR64	32	1	<del> +</del>		+	-
	61012		A/D CONV INPT SCHEM	1	ŭ	CCC	MR64	32		0			
	61013	-+-	A/D CONV COMP SCHEM	+-	ŭ	CCC	MR64	32		ő			-
	61014		A/D CONVEINPUT SCHEM	1	17	ccc	MR64	32		0			
-	61015	- -	OR INVERT SCHEMATIC	┿	Ü		MR64	32	<del>   </del>	ŏ		<u> </u>	-
	61016		AZD CONVT COMP SCHEM		Ü		MR64	32		0			
3	61017	_	D-A STEP STAIR SCHEM	t	Ü		MR64	32	1-1-	0		<del> </del> -	*
:	61019		LOGIC SUBCHAS 20A21		U	CCC	MR64	32		0			
	61020		LOGIC SUBCHAS 20A22	1	Ū	CCC	MR64	32		0			
1	61021		LOGIC SUBCHAS 20A23	Ļ	U		MR64	32		0			
-	61022	1	LOGIC SUBCHAS 20A24	1	U		MR64	32		0			
-	61023	$\perp$	LOGIC SUBCHAS 20A25	↓_	U		MR64	32	L	<u> </u>		<b></b>	_
٩.	61024		37 PIN CONN 20A21 J1	1	U	CCC	MR64	32		0		ł	
٩.	61025		37 PIN CONN 20A22 J1	╄	U		MR64	32	1-1-	9		<del> </del>	_
4	61026	Ì	37 PIN CONN 20A23 J1	1	U	CCC	MR64	32		0		1	
4	61027		37 PIN CONN 20A24 J1	╀	U		MR64	32	<del>  </del>	0		+	-
4	61028 61029		15 PIN CONN 20A25 J1	1	ľ	CCC	MR64	32	1 1	0		1	
<u>-</u>	61030	-+-	50 PIN CONN 20A21 J1	⊢	U	CCC	MR64	32	<del>                                     </del>	<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> -		<del> </del>	-
`	61031		50 PIN CONN 20A22 J2		ľ	1	MR64	32		a l			
4	61032	+	50 PIN CONN 20A23 J2	✝	Ιŭ	<del></del>	MR64	32	<del>  !</del>	ŏ		1	-
Α.	61033		50 PIN CONN 20AZ4 JZ	1	Ĭŭ		MR64	32		5			
À	61034	+	50 PIN CONN 20A25 J2	1	Ιŭ		MR64	32	1 1	ö			
c	123832	-	PARTS LIST	1	ΙŪ		MR64	32		ō			
J	123833		LOGICAL DIAGRAM		U	CCC	MR64	32		0			_
_	122436	-	HEL MAGNETOMETER SK	-	U	101	MR64	32	- -	С			_
_	NOTES CHANGE TO PRI			_	10	JUFL	1947.07	152	4	<u> </u>		JPL 0513 JU	-

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<u> </u>	1 1	PASH No.	1:	TITLE		C1.488	C00E	*4,0	11 FOR	BEEP.		10	DRAWING CONTROL STATUS		NEXT ASSEMBLY	l
5	123213		-	PWR SUPP SCHEM	⊢	U	JPL	MR64	T##U 1EP.	32	wo.	<b>-"</b> +	0		<del>                                     </del>	+
ĺ	123862		1 .	DATA ENC OUTPUT CKT	1	Ιŭ	JPL	MR64		32	1		o I			1
ì	123863		+-	DC AMPL OUTPUT STAGE		tŭ	JPL	MR64		32	-	!	ō		<del></del>	†
Δ.	123864		Ι.	SCALE SW BLOCK DOM		ľ	JPL	MR64		32	1		ŏ			1
<u>-</u>	123865		+	AMPL STAGE SCALE SW	$\vdash$	ŭ	JPL	MR64	<del>                                     </del>	32	-	<del> </del> +	ŏ		1	†
A	123866		ı	CAL CKT INPUT STAGE		ŭ	JPL	MR64		32	1		ŏ		1	1
7	4300536		┼	RADIOMETER LAYOUT	⊢	ü	JPL	MR64	·	32		<del>  </del>	<del>-</del>			+
,	4800345		l <sub>B</sub>	SCHEM PARTICLE FLUX	1	ŭ	JPL	MR64		32	ł		ŏ		4800344	Ì
7	4800825		10	SCHEMATIC PROGRAMMER		ü	JPL	MR64	ļ	32			<del></del>		4800993	
J	4800825		1	SCHEMATIC PROGRAMMER		ŭ	JPL	MR64	1	32	1	!!	0		4800995	
Ť	4800825		+	SCHEMATIC SWEEP AMPL	$\vdash$	ü	JPL	MR64	<del> </del> -	32	<del> </del>	<u> </u>	0		4800981	+
_	4800826			SCHEMATIC SWEEP AMPL		u	JPL	MR64	l	32			ŏ		4800983	
<del>-</del>	4800828		+-	SCHEMATIC PLASMA	-	U	JPL	MR64	<b></b>	32		<del>                                     </del>	0		4800987	
٧.	4800827		1			ľů	JPL	MR64	İ	32		!	ő		4800989	
u N	4800857		-	SCHEMATIC PLASMA SUBCHASS PREAMPLIFR	├	U	JPL	MR64		32	12	62	<del>- 5</del> 1		4800876	
U			1									ı · – ı	-		4800856	
٥	4800857		_	SUBCHASS PREAMPLIFR	L.	V	JPL	MR64			12	62			4800000	-
J	4800859			CB1 PC PRE-AMP CH162		Ü	JPL	MR64	l	32		١ ا			1,00000	
C	4800863		L	SCHEMATIC PRE-AMP		U	JPL.	MR64		32	12	62			4800856	
_	4800864			8.5M SUBASSY CHAN 32		U	JPL	MR64	l	32	ĺ		0		4800881	
U	4800865		ــــــــــــــــــــــــــــــــــــــ	SUBCHASS ELEC UNIT		U	JPL	MR64		32		$\vdash$	C		4800364	
J	4800866		1	CB2 SW DRIVER CH#2		U	JPL	MR64		32		1	0		4800879	
Ą	4800866 F	٦L	L.	CB2 SW DRIVER CH#2		U	JPL	MR64		32			0		480086	
A	4800867			CB2 PC SW DRIVER		U	J₽L	MR64		32			0		4800867	
J	4800868			CB1 POST AMPLIFIER		υ	JPL	MR64		32	L		0		4800864	_
J	4800869			CB1 PC POST AMPL	Γ	U	JPL	MR64		32	Γ		0		4800868	
j	4800870		ļ	CB3 DEMODULATOR	l	U	JPL	MR64		32		1 _1	0		4800864	
Ā	4800870 6	D.L		CB3 DEMODULATOR	Ι_	U	JPL	MR64		32			0		4800870	
J	4800871		1	CB3 PC DEMODULATOR	ŀ	U	JPL	MR64		32		i	0		4800870	
J	4800871		T	CB3 PC DEMODULATOR	Γ	U	JPL	MR64		32			0		4800973	
Ĵ	4800872		1	SCHEM CHANNEL 32	l	Ιū	JPL	MR64		32	l		0			
Ü	4800873		_	POWER SUPPLY SUBASSY		u	JPL	MR64		32	1		0		1	
A	4800873 6	ÞΙ	ŀ	POWER SUPPLY SUBASSY	ļ	Ū	JPL	MR64	ļ	32	1	1	0		4800873	
Ü	4800874		+	SUBCHASS PWR SUPPLY	1-	ŭ	JPL	MR64		32	1 -		D		4800873	
c	4800875			SHIELD PRE-AMP		Ιŭ		MR 64	1	32		1 1	0		1	
č	4800877	-	+	SCHEMATIC PRE-AMP	$\vdash$	ŭ	JPL	MR64		+	12	62	J		4800876	_
ن	4800879			CHANNEL #2 SUBASSY		Ĭŭ.		MR64		32	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ŏ		4800881	
Ā	4800879	Ρi	╁	CHANNEL #2 SUBASSY	<del> </del>	ŭ	JPL	MR64		32	† ·-	1 1	0		4800879	
ô	4800880	_	1	33MM CH 1 SCHEMATIC		Ш	JFL	MR64	1	32			ő			
3	4800881		+-	MICROWAVE RADIOMETER	+	u	JPL	MR 64	<del> </del>	32	1-	!	0		1	-
ن			1	CHASS PARTICLE FLUX		ŭ	JPL	MR64	1	32	1		o l		4801028	
J	4800936   ENOTES CHANGE TO				_	JU.	100	HIND4		126	Щ.		<u> </u>		JPL 0513 JUN	

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=	DRAWING NO.	941H	15		ź		AL anou	WAJO	15 FOR	PICP.	PELIASE	DRAWING CONTROL STATUS		NEXT	Ī
•		<b>B</b> 0.	-	CB1 PARTICLE FLX DET	-	Ü.	JPL	MR64	THED SCD.	32	WO. 70.	O		+	4
ز	4800940		1			1 ~	JPL	MR64		32		ŏ		4800881	
<u>_</u>	4800945		<b>∤</b> −	SW FERRITE CONT DWG	⊦-	U.	JPL	MR64		32		0		4800881	
)	4800946		1.			U						ő		4800881	
<u>,                                     </u>	4800947		↓_	SUPPORT ASY SHIELD	⊢	<u>lu</u>	JPL	MR64		32	-i	<del>-</del>		4800881	
4	4800948			SHIELD THERMAL ASY		U	JPL	MR64						4000001	
_	4800951		↓_	ADAPTER CONT DWG	-	U	JPL	MR64		32	<del></del>	-8			-
	4800964			BRACKET CONNECTOR	ŀ	U	JPL	MR64			1 1 1	0		1	
_	4800965		J	UV PHOTOMER CON DWG	-	U		MR64		32	-i				-
	4800966		1	REFERENCE HORN	ŀ	U	JPL	MR64		32 32		0			
	4800967		╁	COVER HORN	┞-	14	JPL	MR64			<del>                                     </del>			4.222.222	
	4800971			TB1 POST AMP CH1	l	IJ	JPL	MR64		32		0		4800880	
_		PL	ļ.,	TB1 POST AMP CH1	ļ.,	ᄬ	JPL	MR64		32		0		4800971	
	4800972		1	CB2 SWITCH DRIVER	Ì	U	JPL	MR64		32		0		4800879	
	4800973		ــــ	CB3 DEMODULATOR CH1	⊢	Ų	JPL	MR64		32		0		4800879	
	4800974		ļ	CB2 PC SW DRIVER	l	U	JPL	MR64		32		0		4800972	
	4800975		1_	CB1 PC POST AMPL	L	U	JPL	MR64		32		0		4800971	
	4800976		i i	CB4 REF OSCILLATOR		U	JPL	MR64	1	32		0		4800864	
	4800976	Pι.	J	CB4 REF OSCILLATOR	<u>L</u>	U		MR 64		32		0		4800976	
	4800977		T	CB4 PC REF OSCILLATE		U	JPL	MR64	ļ	32		0		4800976	
	4800977		J	CB4 PC REF OSCILLATE	乚	u	JPL	MR64		32		0		4801011	
	4800977	PL	[	CB4 PC CH162	l	U	JPL	MR64	ł	32		0		4800977	
	4800980		Ι.	SUBCHASS SWEEP AMPL	<u></u>	ļυ	JPL	MR64		32		0		4800979	
Ī	4800981	PL	Т	C85	I	U	JPL	MR64		32		0		4800981	
	4800983	PL	1	CB6	١.	U	JPL	MR64	İ	32		0		4800983	
ī	4800986		1	SUBCHAS PLASMA ELECT	Γ	TU	JPL	MR64		32		0		4800985	
	4800987	PL	1	CB1	ļ	U	JPL	MR64		32		0		4800987	
_	4800989	PL	1	CB2	I	U	JPL	MR64		32		0		4800989	7
	4800992		1	SUBCHAS PROGRAMMER		U	JPL	MR64		32	لسلسا	0 1		4800991	
	4800993	PL	1	CB3	П	Τυ	JPL	MR64		32		0		4800993	
	4800995	PL	1	CB4	1	U	JPL	MR64		32		0		4800994	
Ī	4800997		$\top$	CHASS ASSY PWR SUPP	Г	ΙŪ	JPL	MR 64		32		0			
	4801002	l	1	PARTICLE FLX SCHEM	1	Ū	JPL	MR64	1	32		0		1	
	4801005		1-	ALIGNMENT WASHER	1	Ū	JPL	MR64	I	32		0		4800882	
	4801006	1	1	ADJUSTMENT STUD CHAS	1	Ű		MR64	ļ	32		0		4800882	2
	4801011	<b></b> -	1	CB4 REF OSCILLATOR	T	Ŭ	JPL	MR64		32		0		4800879	)
,	4801012			SPACER TUNING FORK	1	Ιŭ	JPL	MR64		32		0		4800864	+
;	4801012		+	SPACER TUNING FORK	✝	tΰ	JPL	MR64		32	<u> </u>	0		4800879	
,	4801013	1	1	TRANSPONDER CAP SW	1	ľŭ	JPL	MR64	1	32		o l		4800868	3
<u>,</u>	4801013	<del> </del>	+-	TRANSPONDER CAP	†-	Ιŭ	JPL	MR64	<del> </del>	32	t · · · · † · · - · ·	0		4800972	
,	4801014	l	1	SHIELD ELEC UNIT	1	Ιŭ	JPL	MR64		32		ŏ		4800864	
_	ENOTES CHANGE T				_	10	<u> </u>	Luck C.A.		124		<u> </u>		JPL 0513 JUP	

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i	DRAWING NO.	941H 40.	11	TITLE	1		VERPOR .		10 F TO 8	300 m	#0.	71	DRAWING CONTROL STATUS		HEXT ASSEMB'.Y	
3	4801015		+	INSULATOR		tu	JPL	MR64	1240 164.	3.2		<del></del>	0		4800986	+
3	4801016		1	INSULATOR		U	JPL	MR64		32			o l		4800986	1
3	4801017		1	INSULATOR		Ū	JPL	MR 64		32	T		0		4800986	
3	4801018		1	INSULATOR		lu.	JPL	MR64		32		1	0		4800992	
В	4801019		1	INSULATOR	$\vdash$	Ú	JPL	MR64		32	1		0		4800992	-
В	4801020		1	INSULATOR		Ū	JPL	MR64		32			ō l		4800980	
В	4801021		1	INSULATOR	-	Ť	JPL	MR64	<u> </u>	32	†	! — !	0		4800980	-
D				CB1 PARTICLE FLUX		Ĭŭ.	JPL	MR64		32			ŏ l		1 330700	
j	4801023		+-	CB1 PC PARTICLE FLUX	Η-	ΙŬ	JPL	MR64	<b></b> -	32	<del> </del>		- 0		4801022	
Ď	4801024	l	1	MAG SENSOR 22A1 CONT	1	ŭ	JPL	MR64		32			ŏ		1.001022	
Ď	4801025		+	MAG EL 22A2 CONT DWG	t-	Ü	JPL	MR64	<del>                                     </del>	32	1	† <del> </del>	0		+	
ō	4801026			MAG EL 22A3 CONT DWG		ŭ	JPL	MR64		32		1 1	ا ٽ		1	
<u> </u>	4801027		+	TB PARTICLE FLUX	-	ŭ	JPL	MR64	<b>-</b>	32	<del> </del>	<del>   </del>	- 0		4800352	_
j	4801028	l	1	SUBASSY PARTICLE FLX	1	Ŭ	JPI			3.2	1		ŏ		1.000	
Ī	4801029		+	CHASS PARTICLE FLUX	$\vdash$	Ü	JPL		<del> </del>	32	<del> </del>	<del>!</del>	-0		<del> </del>	
-	200	l	1	40A1 PWR SW-SCAN ACT	1	ŭ	JPL	MR 64	l	32		i 1	ŏ			
	201		+	40A1 PWR SW-UV PHOTO	⊢-	Ü	JPL	MR64	ļ	32	+	<del></del>	0		<del> </del> -	
	202		1	40A1 PWR SW-RADIOMIR	ł	ŭ	JPL	MR64		32	1	1	ŏ			
_	203		+	40A1 PWR SW-ATT CONT	$\vdash$	Ü	JPL	MR 64		32			<del></del>		<del> </del>	
	203		1	40A1 P SW-SCI INSTR		U	JPL	MR64				1	0			
_	204	A	+	21 MICROWAVE RAD-GSE		+	-			32					1	
		A	1		ł	U	JPL	MR64		3.2			0			
	205	_	┿	40A1 SCI PWR SW-DAS	├-	+	JPL	MR64		32			0		<del>                                     </del>	
	206		1	40A1 SCI PWR SW-DAS		U	JPL	MR64		32		<b>,</b>	0		1	
_	207		╄	40A1 PWR SW-DECODER	<u> </u>	U	JPL	MR64		32		1	. 0			
	302		1	21 MICROWAVE RAD-DAS	l	U	JPL	MR64		32		1	0			
_	303		↓	21 MICRO RAD-DAS/ENG	L	U	JPL	MR64		32	L		0		1	
	304		1	21 MICROWAVE RAD-GSE		Ū	JPL	MR64		32			0		1	
_	401	ļ	1	27A1 IR RADIOMTR-DAS	_	U	JPL	MR64		32			_ 9		<u> </u>	
	402	l		27A2 IR RAD CAL-DAS		U	JPL	MR64	İ	3.2		1 1	0		1	
	403	Ļ	-	27A1 IR RAD-ISOL BOX		U	JPL	MR64	ļ	32	<u> </u> _	<b>:</b>	<u> </u>			
	500	l		22 MAGNETOMETER-DAS	1	U	JPL	MR64	l	3.2			0		1	
_	600	Ļ	1	23 SOLAR PLASMA-GSE	L.	U	JPL	MR64	L	32		1	0		<b>↓</b>	
	601	l		23 SOL PLAS PROG-GSE		U	JPL			32			0		1	
	602	L	1	20A5 SOL PLASMA-GSE	L.	U	JPL		L	32			0		1	
	603	1		23 SOL PLASMA-GSE		U	JPL	MR64		32			0		1	
	604	L	1_	23 SOL PLASMA-GSE	_	U	JPL			32	1		0		1	
	605	l	1	23 SOL PLASMA-DAS		U	JPL	MR64	l	3.2			0			
	606	L	$\perp$	23 SOL PLASMA-DAS		U	JPL	MR64	L	32	L	11	0			
	607	-		23 SOL PLAS PROG-DAS		U	JPL	MR64		32		i	0			
	700	ı	1	25 PART FLUX DET-GSE		lu.	JPL	MR64	1	3.2	1 1	: 1	0			

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701		$^{+}$	25 PART FLUX DET-DAS	-	Ū	JPI	MR64	THEU 519.	32	NO.	**-	0		<del> </del>	-
702			25 PART FLUX DET-ENC	1	Ū		MR64		32		- 1	o l		1	
900		Г	RAD SCAN POS-DAS	Г	U	JPL	MR64		32			0			-
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	L0-63 L0-622 L0-632 L0-636 .0-6100 .0-6110	LO-G3 LO-G22 LO-G32 LO-G33 LO-G36 .O-G100 .O-G110	LO-G3 LO-G22 LO-G32 LO-G33 LO-G36 .O-G100 .O-G110	LO-G3 MISC RADIOMETER DWGS LO-G22 LO WAVEGUIDES RADIOM LO-G32 LO INFACE CHASSIS LO-G33 LO IR RADIOMTR INSTL LO-G36 CABLE ROUTING .O-G100 LAYOUT CONN BRKT .O-G104 UV INSTLEPWR PACK LO	LO-G3 LO-G32 LO-G32 LO-G32 LO-G32 LO-G33 LO-G35 LO-G36 LO-G100	LO-G32 LO-G32 LO-G32 LO-G32 LO-G33 LO-G34 LO-G36 CABLE ROUTING LO-G104 LO-G108	LO-G3	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS	MISC RADIOMETER DWGS   U JPL MR64   32   0   0   0   0   0   0   0   0   0

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-	DRAWING NO.	BAIN EO.	15	ALATE	1	3	TI 2000	PELEAST FOR BAJOS STEE ACHAL THOU SEE.	225P.	###.	10.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
-	550717	-	A	PWR SUP MK2 I -BAND	╁	U	AEI	MR64	33	<del></del> -	<del>  '''  </del>	0		4600312	t
4	550717	PL		PWR SUP MK2 L-BAND	•	Ιŭ		MR64	33			ō		550717	١
-	850738		A	ARTWORK TEMPLATE	Г	ΙŪ	AEI	MR64	33			0		550717	T
-	850741		A	ARTWORK TEMPLATE	l	ĺυ	AEI	MR64	33	ŀ	1	0		550717	l
	850749		A	TRANSFORMER-PWR T401	_	Ū	AEI	MR64	33		П	0		550717	T
-	850750		A	SILKSCREEN	ı	lυ	AEI	MR64	33			0		550717	ı
7	950716		A	CHASSIS MK2 L-BAND	Г	Ü	AEI	MR 64	33			0		550717	T
)	950718			ENV MK2 L-BAND PWR		Ų		MR64	33			0		550717	1
)	950721		A.	SCHEMATIC MK2 L-BAND		U		MR64	33			0		550717	T
_	950739		A	COMPONENT BOARD REG	L	U		MR64	33	_	$\Box$	0		550717	4
7	950740		A.	COMPONENT BOARD REG		U		MR64	33			0		550717	ı
) }	950742		A	COMPONENT BD UNREG	1	U		MR64	33			0		550717	4
_	930143		Ĺ	COMPONENT BD ONE CO	-	٢	72.	MK04	,,		$\vdash$			330717	
_	4600317		В	JUNCTION BOX SCHEM	┢	u	JPL	MR64	33	01	62			4600318	ł
	4600318	PL	B	JUNCTION BOX COMMUN	┢	ŭ		MR64		01	62	<del>- j -   -</del>		4600318	t
	4600319		В	CB1 PC JUNCTION BOX		Ū	JPL	MR64	33	01	62	J		4600318	ı
_	4600320		Г	SPACER JUNCTION BOX	Г	U	JPL	MR64	33	10	61	Ĵ		4600318	1
_	4600321		В	SUBCHASS JUNCT BOX		U	JPL	MR64	33	08	62	<u> </u>		4600318	
_			Ĺ											422222	
	120123	١,		XPONDER SUBASSY		U		MR64		07		5		4300187	١
_	120148		+-	OSCILLATOR RADIO FREQUENCY DIVIDER	$\vdash$	U		MR64	33	07	62			0120123	4
	120159			DETECTOR RADIO FREQU	l	U		MR64		07	62	ç		0120178	
-	120168		$\vdash$	FILTER SUBASSY LOW	1-	ŭ		MR64	33	07	62	<del>č</del>		0120173	
	120170	١٢	1	CONVERTER FREQ ELECT	ı	U		MR64		0.7	62	č		0120123	
-	120171	<del> </del>	<del>  -</del>	AMPLIFIER INTER FREQ	1-	ŭ		MR64		07	62	č		0120178	
	120172	1		AMP 2 INTERMED FREQ	ı	Ιŭ		MR64		07	62	č		0120178	
_	120173	B	т	FILTER LOW PASS	$\vdash$	Ιŭ	MOT				62	č		0120123	
	120174	ľ	1	AMPLIFIER DIRECT	1	Ιŭ		MR64			62	č		0120178	ļ
	120175	8	t	OSCILLATOR RADIO		ΙŬ		MR64			62	<del> </del>		0120123	1
	120176	_		FREQUENCY MULTIPLIER	l	Ιŭ	1 .	MR64			62	c		0120123	
	120177	fΞ	t	FREG MULTIPLIER	1	ΙŪ	MOT	MR64			62			0120123	
	120178	1	1	XPONDER SUBASSY	1			MR64	33	07	62	č		4300188	ł

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ī	DRAWING NO.	945B 80.	1:	TITLE	ź	1	stope		17 794 1 1764	0ESP.		79.	DRAWING CONTROL STATUS		NEXT ASSEMBLY	á
Б	120199	В	+	AMPLIFIER SUBASSY	┿	ΙŪ	MOT	MR64		33		62	<u> </u>		0120172	Ť
H	120310	ı –		CAVITY TUNED X7		1 -		MR64	ļ		lo7	62	Ċ		0120176	
В	120834		1	BLOCK MTG SUBASSY	t	Ü	MOT	MR64		33	07	62	C		0120170	Г
Ç	120855	В	1	FREG CONVERTER LOWER		U	MOT	MR64		33	07	62	_ C		0120170	
۵	120856	В	1	FREQ CONVERTER SUBAY	Г	Ū	MOT	MR64		33	07	62	С		0120170	Γ
	121924	٥		PLUS 6 VDC RECTIFIER	1.	U	MOT	MR64		33	l		0	L	_1	1
	121928	D	1	- 6 VDC RECTIFIER		U	MOT	MR64		33	1	Г	0			Τ
н	122726	Α	1	CAVITY TUNED X4	l.	U	MOT	MR64		33	<u>107</u>	62	ς	L	0120177	L
В	220126	В	Т	NUT PLAIN HEXAGON		V	MOT	MR64		33	07	62	C		0120310	
U	320127	В		SCREW TUNER CAVITY		U	MOT	MR64		33	07	62	<u> </u>		0120310	
C	320127	В	T	SCREW TUNER CAVITY		U	MOT	MR64	ĺ			62	C		0122726	İ
-	320200	I A		DETAINED THREADED		Lat.	LMOT	MOAA		122	107	62		i	10120170	

120855 B	FREQ CONVERTER LOWER				33 (	27	62		0120170
120856 B	FREQ CONVERTER SUBAY	Tu	MOT	MR64		27	62	C	0120170
121924 0	PLUS 6 VDC RECTIFIER	Įψ	MOT	MR64			1	0	1
121928 D	- 6 VDC RECTIFIER	U	MOT	MR64	[33]				
122726 A	CAVITY TUNED X4	Ιu	мот	MR64	33 (	37 i	62	ς	0120177
220126 B	NUT PLAIN HEXAGON	U	MOT	MR64	33 (	57	62	2	0120310
320127 B	SCREW TUNER CAVITY	lυ	MOT	MR64	33 1	27 L	62	C	0120310
320127 B	SCREW TUNER CAVITY	U	MOT	MR64	33	57	62	C	0122726
320280 A	RETAINER THREADED	ΙŪ	MOT	MR64	133	7	62	Ç	0120170
420201 A	WASHER FLAT	υ	MOT	MR64	33	07	62	Ċ	0120178
420202 A	WASHER FLAT	ΙŪ	мот	MR64	33	07	62	C	0120177
520857 B	GROMMET METALLIC	ĺΰ						Č	0120170
720134 B	BRACKET CONNECTE MTG	lυ	мот	MR64	1331	o 7	62	C	0120123
								C	0120178
		Ιū	MOT	MR64				C	0120170
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	120856 B 121924 D 121928 D 122726 A 220126 B 320127 B 320127 B 320280 A 420201 A	120856 B							

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1	DRAWING NO.	845# 80.	6 t.	TITLE	ž	3	COD E	BELEAS BAJOS		# E E P. - D I V.	111		DRAWING CONTROL STATUS		NEXT ASSEMBLY	1
C	2420145 8	,	П	XFORMER RADIO VCO T4		U	MOT	MR64		33	0.7				4620863	†
C	2420147 B	}		XFORMER RADIO FREQ	_	U	MOT	MR64		33		62	_ ⊆		4620863	
C	2420153 8	3		XFORMER RADIO FREG	_	U	MOT	MR64		33	07	62	C		4620117	T
<u> </u>	2420154 8		L	KFORMER RADIO FREQ	L	U	MOT	MR64		33		62	٤		0120159	1
С	2420155 8			AFORMER RADIO FREQ		U	MOT	MR64		33	97	62	C		4620150	T
C	2420156 8		į	XFORMER RADIO T5	l.	U	MOT	MR64			0.7	62	C		4620151	ı
	2420157 B			XFORMER RADIO T6	Г	U	MOT:	MR 64		33	97	62	C		4620152	T
0	2420165 B	,	1	xFORMER KADIO T3		U	MOT	MR 64		33	97	52	C		4620162	1
	2420166 8		П	XFORMER RADIO T4		U	MOT	MR64		33	07	Ó.	C		0120160	T
2	2420167 B	i	1	XFORMER RADIO FREQ		U	MOT	MR64	j	33	0.7	62	C		0120160	ı
	2420183 8			XFORMER RADIO TZ		Ü	MOT	MR64		33	Ô΄	62	(		4620179	Ť
:	2420185 B	ļ		XFORMER RADIO 14		U	MOT	MR64	i	33	ŋ7	62	C .		4620181	1
_	2420185 8		T	XFORMER RADIO T4	П	U	MOT	MR64		33	07	60	C		4620854	1
2	2420196 8	i		XEMR HADIO FREQ		U	MOT	MR64		33	0.7	62	<		0120199	1
	2420197 B	,		XEMR RADIO FREG	1	Ū	MOT	MR64		33	0.7	6.	(		0120199	1
	2420198 B			XEMR KADIO EREG		U	MOT	MR64		33	0 1	52	G .		0120199	1
_	2420381 A		1	XEMP RADIO FRES	-	U	MOT	MR64		33	37	60			0120170	1
	2420382 A			XEMR KADIO EREQ		U	KOT.	MR64		33	η=	52	0.0		0120855	1
_	2420383 A	_		XEMR RADIO FREG	1	U	MOT	MR 64		33	0.7	62			0125170	†
į	2420384 A			COIL FADIO FREQ		ij.	мот	MR64		33	67	62	ä		0120856	
_	2420820 E	,		XEMR RADIO FREG		Ū	MOT	MR64			07	b./	7		0120177	
	2420821 8			XEMB RADIO FREQ	l	i,	мот	MR64		3 -		6.	è		0120177	١
-	2420827 B			XEMR RADIO FREQ	1-	ŭ	MOT	MR 64			•	62	č		0120176	†
	2420828 B			AFMR RADIO FREG		lŭ.	мот	MR64		33		62	č		0120176	
	2420831 B		$\vdash$	COIL RADIO FREQ	-	ŭ	MOT	MR64				62			4620823	
	2420836 B			XEMR RE FREU	l	lŭ.		MR64		33		62	ا خ		0120834	
-	2420837 8		-	COIL RE FREQ CONVERT	-	ΙŬ	MOT	MR64		33	á -	52		•	0120834	+
	2420841 B			COIL RADIO FREQ		i,	мот	MR64		99	0.7	6.2	-		0120148	ĺ
-	2420850 B			COLL RADIO FREG	├	Ü	MOT	MR 54		3 2	07	62	<del></del>		0120175	+
	2420864 B			XFMR RADIO FREG VCO	l	li.	MOT	MR64		33	07	62	2		4620863	
-	2425202 B		<del> </del>	XFMR RADIO FREQUENCY	-	Ü	MOT	MR64			×	62	č		4620166	t
	2425213 8			COLL RADIO FRED VARI		U.	MOT	MR64	- 1	33	0.7	62	č l		0120176	
-	2425214 B		+-	COIL RADIO FREQUENCY	$\vdash$	Ü	MOT	MR64			0.7	62				+
	2425216 8			XEMR RADIO FREQUENCY		U	MOT	MR64		33	07				0120171	í
-	2425217 8		++	XEMR RADIO FREQUENCY	-	Ü	MOT	MR64			-	62	<del></del>		0120175	-
-	2425220 8			COIL RAD FREG DIVIDE			MOT	MR64				62	C		0120175	
-	2425224 B		<del> </del>	KEME RAD FREG CONVER		U	MO T	MR64		33	07	02			0120159	
	2522710 A			ILTER BAND PASS CRY		U				33	· 1	62	0		0120834	
	2720100 B		+ -	MASS ELECT FQUIP			MOT	MR64			97	6.	->		0120172	-+
-						U	MOT			33		62	Ç		0120148	1
_	2720104 [8	)		CHASS ELECT EQUIP	11	U	MOT	MR64		33	27	02 ]	<u> </u>		10120171	

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#### JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARINER R 64 NUMERICAL BY DIV

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1	DRAWING NO.	#0.	2 -	TITLE	ě	1	CCEE	SERIAL	1 PRV 558.	Wr.	●0.	71	STATUS	[	ASSEMBLY	ś
F	2720108			CHASSIS LLECT EQUIP		Ü	MOT	MR64		33		6.2	C		0120159	
F	2720116			CHASS ELECT EQUIP		U.	MOI	MR64		33	27	62		ļ	0120160	1
H	2720118			CHASS ELECT EQUIP		U	MOT	MR64		33	27	62	C	1	0120172	
F	2720121		L	CHASS ELECT EGUIP	L_	IJ	MOT	MR64		33		62			0120173	_
F	2720129			CHASS ELECT EQUIP		U	TOM	MR64		33		6.	C	1	0120177	1
F	2720130			CHASS ELECT EQUIP		บ	MOT	MR64		33		62	C		0120176	1
F	2720131		I -	CHASS ELECT EQUIP		Ü	MCT	MR64		33	57	62			0120174	
F	2720132			CHASS ELECT EQUIP	<u> </u>	U	TOM	MR64		33		5.7	_ <		0120170	L
F	2720158			CHASS ELECT EQUIP		υ	MOT	MR64		33		6.	<		0120175	1
	2720276	Α		BASÉ CCIL	_	<u>u</u>	TOM	MR64		33	07	62		<u> </u>	0120123	1_
F	2726593	В		CHASS ELECT EQUIP		U	мот	MR64		33	07	62	C	1	0120170	1
C	3020842	В	L	CABLE ASSY RF	_	U	MOT	MR64		33	07.	62			0120123	1
C	3020842	В		CABLE ASSY RF		U	MOT	MR64		33	07	62	Ç	1	0120178	1
C	3020843	В		CABLE ASSY RF		U.	MOT	MR 64		33	0.7	62		ļ	0120123	1_
C	3020843	В		CABLE ASSY RF		U	MOT	MR 64		33	07	62	C		0120178	
(	3020844	В		CABLE ASSY RF W16W11		Ų.	MO <sup>≠</sup>	MP64		33	0.7	62	C		0120123	L
C	3020844	В		CABLE ASSY RF W16W11		U		MR64		33		62	Ç		0120178	
Ç	3020851	В		CABLE ASSY	L	Ų	MOT	MR.64		3.3	07	62	C	1	0120123	1_
C	3020851	В	i	CABLE ASSY		Ų	MOT	MR64				62	C		0120178	1
0	3020852	В	lacksquare	CABLE ASSY	L.	U	MOT	MR64		33		62		ļ	0120123	╙
5	3020853		l	CABLE ASSY	1	J		MR64	ļ	33		62	<		0120178	į .
C	3920192		L.	CONTACT ELECTRICAL	_	U	MOT	MR64		33		62	C		0120310	1_
C	3920192			CONTACT ELECTRICAL	i	U	MOT	MR64		33	0.7		€	ĺ	0122726	1
C	3920193		L	CONTACT ELECTRICAL		U		MR64		33	0.7	62			0120310	┺
(	3920222			CONTACT EL MIXER		U		MR64		33		62	C	•	0120856	1
<u> </u>	3920298			CONDUCTOR SECTION	L	U	MOT	MR64		33		62			0120310	1
C	3920298		i	CONDUCTOR SECTION	1	U	MOT	MR64		33		62	C	l	0122726	
3			_	CONTACT STRIP	_	Ų		MR64		33		62	_ =		0120123	1_
C	3922745		١,	CONTACT ELEC MXR LWR		IJ	MOT	MR64			07	62	C		0120170	
D	4220224		L	RETAINER SEMICONDUCT	_	U	MOT	MR64				62	(		0120170	1_
В	4320233			ALIGNMENT DEVICE	l	U	MOT	MR64		33		62	Ç		0120310	
В	4320233		<u> </u>	ALIGNMENT DEVICE	<u> </u>	U	MOT	MR64	L	33	07	62		ļ	0122726	
В	4322746			BUSHING CONTACT ELEC	1	U		MR64		33	0.7	62	C		0120123	
C	4620101			BLOCK MIG SMALL VCO	_	U	MOT	MR64		33	0.7	62	Ĺ		4620138	
C	4620105		1	BLOCK MIG XSISTOR	1	U	MOT	MR64			0.7	62	C	1	4620186	
<u>C</u>	4620109		L	BLOCK MTG XFORMER	_	U		MR64		33	Q.T	62			4620180	
[ ]	4620109			BLOCK MIG XFORMER		U		MR64		33	07	0	C		4620181	
C	4620109		ļ_	BLOCK MIG XFORMER	<u>_</u>	U		MR64		3.3.	[Q.7]	6.2	_ <		4620152	
C	4620109			BLOCK MIG XFORMER		U		MR64		3.3	0.7	62	C		4620169	
$\subseteq$	4620109	8		BLOCK MIG XFORMER	1	U	MOT	MR64		33	0.7	62	<u> </u>	1	4620179	
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	DRAWING NO		Ţ.,		1.	:	******		EE FOR	P\$ 57.		TASE	DRAWING			7
I -	1	mo.	3 5	L	5	CLARE	CODE	BIRIAL	THEN SER.	B11.	WO.	7.	CONTROL STATUS		NEXT ASSEMBLY	4
	4620110	В		BLOCK MIG RE DET	Т	U	MOT	MR64		33	07	62	C		4620161	1
_	4620111	В	$\perp$	BLOCK MIG XFORMER	1	U	MOT	MR64		33	07	62	c		4620151	
		В	1	BLOCK MIG XFORMER		U	MOT	MR64		33	07	62	C .		4620149	
	4620112	8	L.	BLOCK MIG FRED		U	MOT	MR64		33	07	62	c		4620150	
	4620113	5	ł	BLOCK MIG XFORMER	1	U	TOM	MR64		33	07	62	С		4620117	
_	4620114	₿	L	BLOCK MTG	<u> </u>	Ų	MOT	MR64		33	07	62	C		4620162	
_	4620117			BLOCK MTG FREG DIVID		U	MOI	MR64		33	07	62			0120159	
	4620122		L	BLOCK MTG	L	Ų	MO?	MR64		33	07	62	(		0:20173	
	4620122			BLOCK MTG	1	U	TCM	MR64		33	07	62	C		0120168	
_	4620124		┡	BLOCK MTG SECOND IF	┺	U	MOT	MR64			07		C .		0120199	
	4620135 4620138			BLOCK MIG FREG	1	U	MOI	MR 64			07	62	C		0120834	
			↓_	BLOCK MTG VCO TI	ــــ	IJ	MOT	MR64				62	C		0120148	
ı	4620149	В		BLOCK MIG FREQ DIVID		υ	MOT	MR64		33		62	<		0120159	
	4620150	В	1	BLOCK MIG FRED DIVID	_	U		MR64				62	C		0120159	
		В		BLOCK MIG FRED DIVID	1	U	MOT	MR 64		33	07	62	C		0120159	
	4620152	-	L.	BLOCK MTG FREQ DIVID	L.	U	MOT	MR64	- 1	33	07	62	C		0120159	
		В		BLOCK MIG SUBASSY		U	MOT	MR 64		33	07	62	C		0130160	
	4620162			BLOCK MIG AF DETECTR	1	υl	MO T	MR64		33	07	62	C		0120160	
	4620169			BLOCK MIG AUX OSC Q1		U	MO:	MR64		33	07	62	C		0120175	
	4620179	<u>B</u>		BLOCK MIG AUX OSC 02		IJ	MOT	MR64		33	07	62	c		0120175	
		8		BLOCK MIG AUX OSC Q3	i	U	MOT	MR64		33	07	62	C		0120175	
		е		BLOCK MIG AUX 03C Q5		U	MOT	MR54		33	07	62	č l		0120175	
		E		BLOCK MIG FIRST		U.	MOT.	MR 54			07		C		0120171	
	4620203			BLOCK MTG ANGLE	ļ	U	MO~	MR64			ŏ7		č		4620207	
		A		BLOCK MIG XSISTR LG	Ţ	5	MOT	MR64			0.7		C		4620255	
	4620204		A	BLOCK MTG XSISTR LG		u]	MOT	MR64	- 1	33	07	62	ć		4620207	
ı		A		BLOCK MIG AFMR		U	MOT	MR 64		33	07	62	C		0120123	
	4620207			BLOCK SUBASSY MTG		Ų	MOT	MR64				62	_ c		4620823	
	4620207			BLOCK SUBASSY MTG		U	MOT	MR64			07		c		4620815	
	4620207	Α	Ш	BLOCK SUBASSY MTG		Ü	MOT	MR64	1		07		č		4623825	
ı	4620209			BLOCK MIG XSISTR	1 1	U	MOT	MR64			07		C		4620207	
		Α		REDCK WONLING DIODE	$\sqcup$	IJ	MOT	MR64				62	C		0120855	
		A		BLOCK M'G AGC AMPL	П	U	TOM	MR64		33	07	62	C		4620255	
ŀ		A		BLOCK AGC AMPL		U	MOT	MR64		33	07	62	c l		4620845	į
		A		BLOCK AGC AMPL		U	мот	MR64			07		С		4620846	İ
		A		BLOCK AGC AMPL		U	MOT	MR64			٥7		č l		4620847	
		Αj		BLOCK AGC AMPL		u	MOT	MR64			071		C		4620848	ł
	-620255	A l		BLOCK AGC AMPL		υl	MOT	MR64				62	č		4620849	
		Λ ]		BLOCK MIS XFMR		U	MOT	MR 64			07		c 1		0120173	٠
1	4620815	в 1		BLOCK MIG FREG MULT	1	ы	моті	MR64				62	č l		1120177	ĺ

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=	DRAWING NO.	No.	3 5	TITLE	3	3	1000 1000	# # # # # # # # # # # # # # # # # # #	THEO DE	DESP.	_ •	10	DRAWING CONTROL STATUS		NEXT ASSEMBLY	ļ
	4620818	-	Т	BLOCK MIS FREG MULT	T	U	MOT	MR 64		33	07	62	C		3120177	7
	4620822		ļ	BLOCK MIG FRED MULT	L	Ų.	MOT	MP 64		33	07	62	c		0120177	
	4620823		1	BLOCK MIG FRED MÜLT	Γ	IJ.	Mor	MR54		33	0.7	62	Ĉ.		0130176	
	46208241	В	L.,	BLOCK MIG FREG MU 7		i.	MC 1	MR64 .		33	0.7	62	c i		0120176	
	4520825	В		BLOCK M 5 FREG MULT	Г	U	MQ	MR64		33	0.7	62	(		0120176	-
	4620826	В		BUDCK MIG FRED MULT	ļ	U.	MOT	MR64		33	0.7	62	- č - i		0123176	
	4620845	В	Г	BLOCK MIG AMPL	1	U	MO:	4454		33	0.7	62	2		0120174	
	4620846	3	Ĺ	BLOCK MIG AMPL		ارا	моті	MR 64		33	07	62			0 50.74	
1	4620847	В	Γ	BLOCK M'G AMFL	Τ	Ū		MR64		33	a 7	52	=======================================		0.20174	-
	4620848	.B	_	BLOCK MIG AMP.	L	Ú	мо: 1	маси		33	o 7		- ĉ		01201-4	
١	4625819	Б		BLOCK MIG AMPL	Г	Ü	MC .	N404		33		62			31.017-	
	4631854	3	1_	BLOCK MOUNT AUX 050		انا	MO T	M1154		33	o ·	52			101111-6	
1	4621651	Ü		8: 0CK M15 VCO	Γ	V.	MO T	31. r ·		44	0.7		(		620863	-
J	4025561	8		BLOCK MIG SUBASY 330		Ü,		M9 44		33	0.7		· .		2120145	
Ī	4612657		À	BLOCK MISH ISTS OF	Τ-	Ŭ.	MCT	MREA		33		62			2027045	
-	4622694		Δ	6.00K MIG #15 MU. 1		Ú	110"	V1164				6.2			48. 495	
Ī	462,695	Ā	1	BLOCK BURNSY MIG	1	Ť		1100 6.4		33		62			620822	
ľ	4622695	A		B. CCK SUBASSY MID	li	,	- 1	V3.54		33		62				
7	9622095	À.		BLOCK SUBASSY WILL		Ű		M5 54			U 7		-		9030930	
1	4625203	ą		BLK MIG MIL ASIS V		ĭ.	- 1	Mana				62	- 1		-620618	
		ii		BLOCK M G		ů,		16854		33			= 1		1.625204	
		9	i I	BLK 4551 MOUNTAG		.,	- 1	M364	1		0.7 0.7	62			0120171	
		B .	-	SIK MIR TRANSISTOR				M국 54							0120171	-
	1	4	1	CRYSTAL UNIT WEATH	ĺ	H.		例に D 44 対応 6 44		33	67		9		01/0123	
	H022700			TRYSTAL UNIT QUARTZ	+	*+		MR 64							01:0175	
3	4920.25			DISK CENTER TURFO		11		MR 64	į		07		6		0120148	
		A		DISK CENTER TINES		ð		M364		ر <u>د د</u> د د		62			10120310	_
		8		CONVERTER PRED SCHEM			- 1	MR 54			57		Č .		0122726	
		8	$\vdash$	OSCILLATOR AUXILLARY				MR 64		33		62	<u> </u>		0120170	
п		В		FREG MULTIPETER		U			j		07	- 1			0120175	
+		9		FILTER LOW PASS	Н	半		MR 64			07		-		0120177	
1	6326866					U		MR64	- 1		07	- 1	C		0120173	
		₽ B		OSCILLATOR PADIO	$\vdash$	إند		MR64				62			0120148	
		- 1		FREG MULTI SCHEMATICI		- 1	MC T		- 1		07	1	C		0120176	
		B		AMPLIFIER DIREC SCHM	-			MR64				62			0120174	1
		Б		AMPL INMEDIATE SCHEM			MO1		i	33			Ç		0120172	
4.		В		AMPLIFIER FIRST			MOT			33			<u> </u>		0120171	
		В		DETCIOR SCHEMATIC		- 1	MOT	- 1		- 1	07	- 1	C		0120160	
		3		FREQ DIVIDER				MREA			0.7	62	_ C		0120159	
	6321923			SCHEMATIC			MQ 7			33	į	- 1	0		0121924	
1	6321927	<u></u>		SCHEMATIC		to I	MOTI	MR64	1	33 l	:		0 1		0121928	Î

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TITLE	1.2	1173	COOL	BELEASE FOR BEJOR ITEM BERFAL THEW SEE.	BIN. WO. 19	DRAWING CONTROL STATUS		NEXT ASSEMBLY	5

-	DRAWING NO.		1:	TITLE	1	5	VEH 801	#176#2 LOB		_	**************************************	DRAWING	NEXT ASSEMBLY	1
Ξ		NO.			-	5		ACPIAL THEY	LCP.		¥0. T*	STATUS	0120310	+
В	6420291	А	1	PLATE END TUNED CAVI		U	MOT	MR64	33		7 62	`	0122726	
8	6420291	Α	ļ.,	PLATE END TUNED CAVE	<u> </u>	U	MOT	MR64	33		7 62		0120310	+
C	6420882	Ð	1	PLATE TUNED CAVITY		U,	MOT	MR64	33		7 62	è	0122725	
C	5420882	В	1.	PLATE TUNED CAVITY	<u> </u>	IJ	MOT	MR64	33		17 62		0120123	+
В	7420278	A	T	FORM COIL	1	J	MOT	MR64	3.3		7 62	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7720835	
ß	7420838	В	1	FORM COIL	L.	زا		MR 54	3 3		7 52			+-1
5	7422752	Ā	1-	FORM COIL X16	l	U	MOT	MR64	3 3		17 62	, i	0120177	
В	7720835	В		TUNING ASSY	L	U	40	MR64	3.3		7 62		0120170	
-	3421925	D	1-	FABRICATION BD &	Γ	U	MOT	MR64	33		- 1	0	6121924	
ŀ	8421925	Ь	1	ARTWORK BD1 FRONT	L.	U	MOT	MR6+	3.3			0	8421925	
$\vdash$	8421925	(i)	1-	ARTWORK BD1 BACK	Г	Ų	MOT	MR64	3.3		į	0	8421925	
1	8421926	ľ'n	1	FARRICATION 60 2	1	IJ	MC 1	MR54	3.3			2	0121924	
$\vdash$	8421926	0	+-	ARTWORK BD2 BACK	Т	U	MOT	MR 64	3.3		:	0	8421926	
	8421929			FABRICATION BD 1		lu.	мот	MR64	3.3			<u></u>	0121928	
$\vdash$	8421930		+-	FABRICATION BD 2	1	Ū	MOT	MR64	3.3	,	1	-0	0121928	1
	0422730				L		l			.			ļ	
Γ			T				İ							
$\vdash$		<u> </u>	+		T	1.	BAN	MR6+	3:	J			430019-	
<b>_</b>	6141500			518		_			3:		-	0	4300194	
ı	6141500			TUNING BLOCK	1	10	1 '	MR 54	3		- 1	ă	4300194	
L	6141501		_	RESONATOR	-	ند		MP 5 i				3	4300194	
	6141502			TEFLON SUPPORT		10		MR 64	3:		į	1 3	4300194	
	6141502	15		FILTER HOUSING	4	10		MR 64				+ <del>z</del>	4300154	
	6141502	6		COVER	i	U		MR64	3:		- 1	0	4300194	
1	6141502	7	1	DISPLAM FILTER + 1204	_ _	보	RAN		: ق	4	· · · · i —	<del> </del>	4300194	
$\vdash$	6141504	l i	T	DIELECTRIC SUPPORT	1	U	RAN		3		1	0		
1	6141504	2		ANT COUPLING ASSY	1	44		MR64				. <del> </del>	4300124	
	6141504	13		SE' SCREW		U		MR 64	3		1	0	4300194	
	6141504		1.	SUPPORT ROD	1-	-14	4	ME.54	3				430019	
	5141504	3	T	RESONATOR SHAFT		U		MR 64	3		i	ن	4300194	
1	5141504			SUPPORT NUT		ل ا	RAN	MR 54	3_		i	1 2	4300194	
	6141504		-	FILTER ASSY FL204		U	RAN	MR64	3		- 1	0	4300194	+
1	6160500			CIRC & POWER MONITOR	Ŀ	نىل	RAN	MR64	[3.	3			·	+-
1	6160500		1	INSULATOR	T	U	IPAN	MR64	3		į	0		
l a			- 1	HOUSING LOWER	1	Ιū	LRAD	MR64	3		<u>L</u> _		<del></del>	
15	6160501		_	HOUSING UPPER	1	Īυ	RAN	MR64	3		i	0		1
10			2	HOUSING		U	RAN	MR64	3	3.		Q	<u> </u>	
10			<b>-</b> j	BRACKET		ا ا	RAN	MR64	3	3		0	1 1	
To		15		CONNECTOR	1	Ιū	RAN	MR64		3		1 0	<u> </u>	
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L.	RAWING		د د د د ا	I		=	VENDER	96714	46 708 1116#	PERF.	•1:	IASE	DRAWING CONTROL	···	NEXT	1
ä	DRAWING NO.	NO.	35	TITLE	5	14413	coot	BERIE	THEU SEV.	DIT.	HQ.	10.	STATUS		ASSEMBLY	5
C	6160501	8	Τ	BRACKET SUPPORT	ľ	U	RAN	MR64		33			0		İ	
ς	6160501	6		CONNECTR SPEC TYPE N	_	Ų	RAN			33			<u> </u>			4-1
(	6160501	7 – 1		HOUSING		U	1	MR64		33			9		l .	
0	6160501	4	_	HOUSING LOWER	ļ	U		M964		33	_	-	0			+
C	6160502		İ	SPIDER		ļU	PAN			33			O .		1	
В	6160502			SPACER	1_	IJ		MR64		33	_	-	0			+
C	6160502	3	1	RESISTOR HOUSING		U		MR64	ł	33			0		i	
В	5160502	8	┸	SPACER	╙	Ų.	+	MR64		33		Ļ	<u> </u>		ļ	+-
C	6160502	1	1	MOUNTING BRACKET	Ì	U	1	MR64	l	33	ĺ		0			
٤	6160502	0	ļ	MOUNTING BRACKET	↓_	111		MR54.	L	33		ļ.—	٥			44
В	6160502	5		MAGNET	1	U		MR64	Ì	33			0			
8	6160502	4_	1.	FERRITE	1	U		MR 64	ļ	33.	_	L	0			+
В	6160502	6		POLE PIECE	1	U		MR64	i	3.3	l	1	0			
A	6160503	4	1_	LCAD SUBASSY	↓_	į.	RAN	MR.64	ļ	33		<u>;</u>	0		<del></del>	+
A	6160503		1	CENTER CONDUCTOR	ì	U		MR64		33		1	C			i
8	6160503	9		TUBE ASSY	ļ.	Ų		MR 64		33	<u> </u>		0			-1
В	6160503	8	ì	FLANGE	ı	J		MR64	i	33	l		0			
Α	6160503	7	_	TUBE	Ļ.	ļΨ	+	14R64		33		ļ	<u> </u>		<u> </u>	
Α	6160503	5		RESISTOR HOLDER	1	U		MR64		33	-	1	9		1	
A	6160503	2		PLAIE	ļ.,	14	RAN			33		<u> </u>	9		<del></del>	+-
A	6160503	6		BEAD	1	Ų	RAN			33		ì	C		İ	- 1
A	6160503	Q	1	LOCKING NU!	1	IJ	RAN		<del> </del>	33		·			<del></del>	+
A	6160503	3		SUPPOR T	1	U		MR 64		33		1	0		į.	-
Α	6160504	6	$\perp$	DIODE	↓-	غة	RAN		<u> </u>	3.3			0		<del></del>	+-
В	6160504	4		INNER CONDUCTOR		U		MR64		33		1	0			-
LA	6160504	0	1	INSULATOR	↓_	¥		MP64	ļ	3.3						-+-
A	6160504	1		INSULATOR	1	U		MR64	İ	33			0			Ì
Α	6160504	_ـــــــــــــــــــــــــــــــــــــ		INNER CONDUCTOR	↓_	لذإ	RAN	MR64	ļ	33	-	ļ	ļ <del>-</del> ļ		+	<del>-                                    </del>
10	6160504	9		COUPLER MOUSING		U	RAN			33			9			1
A	6160504	2	4_	PLATE	l –	ļu		M864	<b>⊢</b> —	33		i	1-2		+	
0	6160504	8		HOUSING MACH	1	19		MR64		33	1	1	0 1			
عا	6160504	12		COVER	ł-	اندۇ.	1	MR.64	<del></del> -	3.3.	ļ	·	<del>                                     </del>		+	
A	6160505		-	LOAD ASSY	1	1	1 '	MR64		33		1	º			
1.5	6160505	jo.	1_	SPIDER ASSY	ļ.,	44		MR.64	ļ	133	ļ	į				+-
(	6160505		ł	COVER	1	JV		MR64		33		i.	9 1		1	
A			1-	JUNING SCREW	1	- u		MR 54	ļ	133	1		∔ <del>-</del> ∔		- <del>i</del>	- <del></del> -
В	6160506	5		COUPLER SUB-ASSY		U		MR 64	1	33		1	0			i
A	6160506	17	-   -	SPACER	Ŧ	141		MR.64	<del> </del> -	133	ļ	-	ــــــــــــــــــــــــــــــــــــــ		- <del>i</del>	<del>-i</del>
(	6160506			DIRECTIONAL CPLR ASY		U		MR64	1	33		1	ū		1	İ
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A	6160512	1.	1	INSULATION		ļΨ		MR64		33		- 1	0		l	1
-	6160512		+-	MONITOR PROBE ASSY	+	Ψ.		MR64		33.			<u>- ŏ</u> -		<del> </del>	+
	6160512			HOLDER	l	U		MR64 MR64		33	ı	- 1	0 0		l	1
	6160513		+-	RESISTOR HOLDER	╁	U		MR64		33	-+	-	0		· · · · · · · · · · · · · · · · · · ·	+
	6160513	I -	1	CONNECTOR	l	li.	1	MR64		33	- 1	- 1	o l			1
	6160513		t	TERMINAL BOARD MODIF	H	U		MR64		33		$\dashv$	0		<del> </del>	+
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3	449101		L	PCB SW MODULE UPPER	_	u	II	MR64		33					449104	
2	449102		ı	SWITCH HIGH LEVEL		U	TI.	MR64	l	33	Ì		ō l		457763	1
3	449103		L	PCB LO LEVEL SWITCH	L	ш	II.	MR64		33			-		449104	1
2	449104			SWITCH LOW LEVEL		υ	1 T	MR64	- 1	33	i		0		460073	1
٤_	449104		⊢	SWITCH LOW LEVEL	<u>.                                    </u>	ŭ	TI	MR64		33					457789	
3	457738		Α	GROMMET TEFLON #1		U	ΙT	MR64	- 1	33	- 1		0		457782	
3_	457739		Ļ.	GROMMET TEFLON #2		Ų.	ŢŢ.	MR64		33	<del>i</del>	$\rightarrow$			449104	
3	457740			INSULATION SH ELECT		U	T I	MR64		33	- 1	- 1	0		457782	
<u>}</u>	457740		A	INSULATION SH ELECT	$\vdash$	ļų.	II	MR64		33	-		- 0 +		449104	_
-	457744		A	SHIELD SWITCH SHIELD SWITCH	ĺ	U	TI :	MR64 MR64	ŀ	33 33			0		457782 449104	
-	457762		1	PCB DECKS C&D	$\vdash$	U	ΤI	MR64		33		-+-				т
)	457763		1	SOLID STATE DKS CGD		111	TI	MR64		33	- 1	- 1	0		457763 460805	
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,	457770	-	Г	SCHEM SW LOW LEVEL		U	TI	MR64		33			ō l		449104	+
3_	457775	L		PCB UNIV BISTABLE #1		ŭ	ΤI	MR64		33			ă l		457777	
3	457776			PCB UNIV BISTABLE #2		U	ŢĮ	MR64		33		T	0		457777	T
_	457777		A	UNIV BISTABLE MODULE		Ū.	IL	MR64		33			ŏ		460892	1
-	457777	_	A	UNIV BISTABLE MODULE		V	ŤΙ	MR64		33	I		ō		460073	1
۲.	457777		la.	UNIV BISTABLE MODULE	ı	lu l	ΤI	MR64		22		- 1	0 1		460023	1

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F	RAWING	LI	s t	MARINER	R	64	NUM	ERICAL	_ BY (	VIC		PAGE	18	4-12-6
	DRAWING HO.	BASH NO.	ŧ	TITLE	1	1	V1 4 20 2	PALCA	15 FOR 5 17 FM	9657. 947.	BATE	DRAWING CONTROL STATUS		HEXT
	457777		A	UNIV BISTABLE MODULE		ΙŪ	TI	MR64		33		0		457763
	457777		A	UNIV BISTABLE MODULE		ļu	ΤI	MR64		33				460894
	457777		A	UNIV BISTABLE MODULE		U	TI	MR64		33		0		460025
_	457777		A	UNIV BISTABLE MODULE		U	71	MR64		33		0		460037
	457777		Ä	UNIV BISTABLE MODULE		U	ĮΤΓ	MR64		33		0		460049
Η	45/7/8		<u> </u>	UNIV BISTABLE MODULE	1	U	TI	MR64	L	33		0		457769
	457779		П	SCHEM HI SPD BINARY	1	ľ	TI	MR64		33	- 1	0		457777
-	457780		⊢	PCB SW FLIP FLOP LO	╄	Ιŏ	TI	MR64		33		0		457777
	457781			PCB SW FLIP FLOP UP	1	U	ΤÎ	MR64		33	i	0		457782
1	457782		-	SWITCH FLIP FLOP	╁╌	tŏ	<del>lii</del>	MR64		33	-	0		457782
1	457782		i	SWITCH FLIP FLOP		Ιŭ	ŀί	MR64		33	i	0		457763
4	457782	-	H	SWITCH FLIP FLOP	┿	łŏ	<del>lii</del>	MR64		33	<del>i-</del>	0		460899
١	457783		١.	SCHEM SW FLIP FLOP	1	Ιŭ	ΤÎ	MR64		33	i	0		457769
7	457788	_	Н	PCB DECKS E&F	+-	Ιŭ	ΤÎ	MR64		33	<del>- i-</del>			457789
Į	457789			LO LEVEL SWS DKS EGF		ľů	ÌΤΙ	MR64		33	- [	0		460806
1	457790			SCHEM LO SPEED CTR	1	ΙŪ	ŤΪ	MR64		33		0		460037
١	457790			SCHEM LO SPEED CTR	1	lu.	TI	MR64		33	- 1	ا ۃ ا		457789
1	457795		П	PCB AMPL LOW BAND	1	Ū	TI	MR64		33		0		457796
-	457796			AMPLIFIERS LOW LEVEL	1	Ū	TI	MR64		33		ا ة ا		460807
J	457797			SCHEM AMPLS&SIG COND	T	Ü	ΤI	MR64		33	$\neg$	0		460083
1	457797			SCHEM AMPLS&SIG COND	1	U	ΤI	MR64	' I	33	!			457796
ł	460005			PCB MATRIX PN GEN LO	Γ	U	ŤΙ	MR64		33		0		460007
1	460006			PCB MATRIX PN GEN UP	_	U	TI	MR64	I	33	ļ	1 o 1		460007
1	460007			MATRIX PN GENERATOR	T	U	TI	MR64		33		0		460073
	460008			SCHEM MATRIX PN GEN	1	U	ΤI	MR64		33	ļ	0		460007
ŀ	460009			PCB LO SPEED CTR LOW		U	11	MR64		33		0		460011
1	460010			PCB LO SPEED CTR UP	丄	U	11	MR64		33	L_			460011
١	460011			MATRIX LO SPEED CTR		U	ΤI	MR64		33		0		460037
1	460012			SCHEM LO SPEED CTR	Ш	U	TI	MR 64		33		0		460011
1	460022			PCB BLIP REGISTER #1	1	U	ΤI	MR64		33	- 1	0		460023
ł	460023			BLIP REGISTER #1	1-	U	11	MR64		33		0		460803
l	460024 460025			PCB BLIP REGISTER #2	1	V	TI	MR64		33	1	0		460025
+	460025			BLIP REGISTER #2	$\vdash$	U	Ti	MR64		33		0		460803
ł	460026			SCHEM BLIP REGISTER		U	TI	MR64		33	1	0		460023
+	460027			SCHEM BLIP REGISTER	ļ	U	TI	MR64		33		0		460025
-	460028			PCB BUCKING PWR SUP	П	U	T I	MR64		33	-	0		460028
+	460029			BUCKING POWER SUPPLY	Н	U	Ţ l	MR64		33	i	0		460804
1	460029	ļ		SCHEM POWER SUPPLY		U	TI	MR64		33	1	0		460028
L	HOTES CHANGE TO			PCB LO SPEED COUNTER		υl	III.	MR64		33		0		460037

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. 1		Pall	40	TITLE		3	75,000	BANO	1718	P169.		IAET	DRAWING		HEXT
	DRAWING NO.	80.	1 5		ă	13	<b>0084</b>	20 3137	TM4# \$48.	per.	**	14.	STATUS		ASSEMBLY
7	460037		П	LOW SPEED COUNTER	Π	U	TI	MR64		33			0		460806
	460046			MONOSTABLE FLIP FLOP	L	U	TI	MR64.		33	_	L_1	_ 0		460049
1	460048		1	PCB MASTER COUNTER	١	U	ΤI	MR64		33			0	1	460049
1	460049			COUNTER MASTER	L	U	I_T	MR64		33			0		460802
	460061		П	SCHEM MA CTREXER REG	ł	U	ΤI	MR64		33			0		460899
ı	460061			SCHEM MA CTREXER REG	1_	U	TI	MR64		33			0		460049
	460062		Т	SCHEM DECKS A&B C&D	1	U	ΤI	MR64		33		1 1	0		457763
	460062			SCHEM DECKS AGB CGD	L	U	II	MR64		33			0		457769
	460069		Т	HEAT SINK PWR SUPPLY	I	U	TI	MR64		33		1 1	0	ì	460804
	460072		_	PCB PN GENERATOR	┖	U	11	MR64	ļ	33			0		460073
	460073			PN GEN/FREQGMOD CKTY	ı	U	ŢΙ	MR64		33		i i	0	ļ	460801
	460074		1_	SCHEM PN GENERATOR	L	U	TI	MR64		33		1	0		460073
	460075			PCB POWER SUPPLY		U	TI	MR64		33		!	0	1	460076
	460076			POWER SUPPLY	1_	U	TI	MR64		33			0		460804
1	460082		T	PCB COMP ISOL AMPL	1	U	TI	MR64		33		1	0	i	460083
	460083			COMPARATOR ISOL AMPL	Į	U	ĮΤΙ	MR64		33		1	0		460807
	460084			SUBCHAS SINGLE CONN	Τ	U	TI	MR64		33			0		460800
	460084			SUBCHAS SINGLE CONN		U	1.1	MR64		33			0	<u> </u>	460801
_	460084		Т	SUBCHAS SINGLE CONN	Т	U	TI	MR64		33			0		460802
	460085			SUBCHAS DOUBLE CONN	1_	Ų	11	MR64		33					460803
_	460085		Т	SUBCHAS DOUBLE CONN	1	U	ΤI	MR64	İ	33		į į	0		460805
	460085		_	SUBCHAS DOUBLE CONN	1_	U	TI	MR64	1	33	L_		0		460806
_	460085		T	SUBCHAS DOUBLE CONN	1	U	TI	MR64		33		١.	. 0		460807
	460086		1	SUBCHAS POWER SUPPLY		U	TI	MR64		33	1	<u> </u>	0	ļ	460804
_	460800		T	ANALOG-TO-DIGIT CONV	Т	U	TI	MR64		33	I	!	0	1	4600322
	460801		1	PN GEN FREGGMOD CKTY	1	U	TI	MR64		33	<u> </u>	<u> </u>	0 _	1	4600328
_	460802		1.	TRANSFER REGISTER	Т	U	TI	MR64		33	T		0		4600327
	460803		1	BLIP REGISTERS		U	TI	MR64	1	33	L	İ	0	<u> </u>	4600326
	460804		Т	POWER SUPPLY		U	ΤI	MR64	i	33	l	}	0	1	4600329
	460805		1	SOLID STATE DKS ABCD	1.	Jυ	TI	MR 64	L	33			0		4600325
	460806			SOLID STATE DKS E&F	1	U	TI	MR64	İ	33	į.	į	0		4600324
	460807			AMPLIFIERS	1.	Ιu	lu_	MR 64		33	i	<u> </u>	٥		4600323
	460817			MARKING POWER SUPPLY	7	U	ΤI	MR 64		33	I	1	0		460086
	460818	l		MARKING PN GENERATOR		Ū	TI	MR64	<u> </u>	33		<u> </u>	0		460084
_	460819			MARKING BLIP REGS	T	U	TI	MR64	1	33		1	0		460085
	460820			MARKING TRANSFER REG	1	Ū	ΤI	MR64		33	1	1	0		460084
-	460821	T	T	MARKING DECKS ABCD	Τ	U	ŦΙ	MR64		33	1	1	0		460085
	460822	ŀ		MARKING DECKS E&F	$\perp$	U	I I	MR64	L	33	1	1	0	I	460085
	460823		T	MARKING AMPLIFIERS	Ĭ	U	TI	MR64	I	33			0	1	460085
	460824	ļ		MARKING CONVERTERS		lu	ΙτΙ	MR64	F	33	1	1	0	1	460084

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П		BATH	140	TITLE	1.	1	*****	8111	14 FGE	setr.		FASE	DRAWING CONTROL STATUS		MEXT	İ
1	DRAWING NO.	80.	15	TITLE	1 5	3	CODE	&1 BIAL	1 14	DIV.	No.	7.			ASSEMBLY	L
7	460891			PCB COMPARATOR		U	TI	MR64		33	i	1	0		460892	l
٠	460892			COMPARATOR & INTEGRA	1_	U	ΤI	MR64		33		1_1	0		460800	ļ
٦	460893		Т	PCB DECODER	1	U	ΤI	MR64		33	ļ.	1 1	0	Ì	460894	İ
١	460894			DECODER		U	TI	MR64		33		11	0	ļ	460800	ļ
П	460895			SCHEM CONVERTER	1	Ų	TI	MR64	ļ.	33		1	0	i	460892	ł
1	460895		1_	SCHEM CONVERTER	-1-	U	TI	MR64		33	ــــ	1 1	0		460894	1
7	460897		T	BIPHRASE MODULATOR	1	U	TI	MR64	ĺ	33	İ	1 1	0	İ	460801	l
١	460898			PCB TRANSFER REGIS		U	TI	MR64		33		1	0		460899	1
7	460899			TRANSFER REGISTER	. 1	U	TI	MR64	ĺ	33	1	1 1	0	1	460802	١
١.	461701		1	WIRING LIST BLIP REC	1	U	II	MR64		33			<u> </u>		460803	4
	461702		1	WIRING LIST CONVERT	j	U	ΤI	MR64	ł	33			0		460800	
١	461703		1_	WIRING LIST PN GEN	-	U	1 1	MR64		33		<del> </del>	0	ļ	460801	+
	461704		1	WIRING LIST TRAN REC	7	U	TI	MR64		33			0			İ
١	461705		1	WIRING LIST PWR SUP		U	11	MR64	<u> </u>	33	ــــ	1	0	<b> </b>	460804	-
Ĵ	461706			WIRING LIST DKS ABC	7	U	TI	MR64	1	33	1		0	ŀ	460805	1
١,	461707	1	j	WIRING LIST DKS E&F	1	U	TI	MR64		33	↓		0		460806	4
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	DRAWING NO.	8440	1 1	TITLE	1	1	*****	BAIG	161 FOR	PTOP.	***	1488	DRAWING CONTROL STATUS		PERT
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	1912014			CONTAINER REINF	1	U		MR64		34			0	Ĭ	2012014
	1912014		A	CONTAINER REINF	4.	U		MR64		34			0	L	2012015
	2001067		ı	BOX INTERIOR		U	ESB	MR64	l 1	34			0		2001069
			<del> </del> -	BOX_EXTERIOR	4	U		MR64		34	L.,		0		2001069
	2001069		ı.	PACKAGING BATTERY	1	U		MR64		34		li	0		2011000
				BATTERY ASSY	4.	U	ES8	MR64		34			0		4400390
	2012001		Α	POS & NEG ASSY	1	Ü	ESB	MR64		34			0		2012014
	2012001			POS & NEG ASSY	┸	Ų		MR64		34		L., I	0	ļ	2012015
	2012002			POSITIVE PLATE	1	Ü	ESB	MR 64		34			0		2012001
	2012002			POSITIVE PLATE		U		MR64		34			0		2012001
	2012003			NEGATIVE ASSY	1	ļυ		MR64		34			0		2012001
	2012003			NEGATIVE ASSY	4	U		MR64		34			0		2012001
	2012004		Α	GRID ASSY NEGATIVE	1	Ü		MR64		34			0	l	2012003
	2012004		Α	GRID ASSY NEGATIVE		U		MR64		34			0		2012003
	2012005			SEPARATOR POSITIVE		U		MR64		34			0		2012001
	2012005			SEPARATOR POSITIVE		υ		MR64		34		_ 1	0		2012001
	2012006			RETAINER		Ü		MR64		34			0		2012003
	2012006		Α	RETAINER	1_	U		MR64		34			Q		2012003
	2012007		H	CONTAINERS	1	U		MR64		34			0		2012014
	2012007			CONTAINERS	┸	U		MR64		34			0		2012015
	2012008			WIRING DIAGRAM	1	U		MR64		34		- 1	0		2011000
	2012009			HEAT TRANSFER	1_	Ų		MR64		34	!	1	0		2012014
	2012009			HEAT TRANSFER	1	U		MR64		34		T	0		2012015
	2012010			POTTING CHANNEL	.1	U	E\$8	MR64		34	i	- 1	0		2012014
	2012010			POTTING CHANNEL	1	U	ESB	MR64		34			0		2012015
	2012011			POTTING CHANNEL		U	ESB	MR64	- 1	34	- }		0		2012014
	2012011			POTTING CHANNEL		υ		MR 64		34			0		2012015
	2012012			5 CELL COVER		U		MR 64		34		- 1	0		2012014
	2012012			5 CELL COVER		C	ESB	MR64		34			0		2012015
	2012013			4 CELL COVER	1_	U	ESB	MR64		34	!	]			2012014
	2012013			4 CELL COVER	1	Ü		MR64	$\neg$	34			0		2012015
	2012014			MONOBLOCK POSITIVE	1_	U.	ESB	MR64	1	34	i				2011000
	2012015			MONOBLOCK NEGATIVE	1	C		MR64		34			0		2011000
	2012016			TRANSDUCER PANEL				MR64		34			_ 0		2012019
	2012017	l	1	TERMINAL BOARD				MR64		34			0		2012019
	2012018		_	TERMINAL ASSY	1			MR64		34	1		ō		2012019
	2012019			TRANSDUCER ASSY	$I \Box$			MR64		34			0		2011000
l	2012020		_	STAMPS MARINER R		U	ESB	MR64		34	- 1		0		2011000

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D	RAWING	LI	51	PARTHER		-	NUM	ERICA	LBY	υv			PAGE	22	4-12-6	3
ŀ	DRAWING NO.	846H 80.	4 5	TITLE	:	3	PE 8 9 8 1		44 F FOE	****		ATE	DRAWING		HEXY	1
-	<del> </del>		-		۲	۴	-	M PT	7427 854.	B##.	=	ya.	CONTROL STATUS		ASSEMBLY	1
7	3151753		8	SERVO MTR ANTEN DR	L	U	JPL	MR64	ļ		<u>_</u>	L.,				
В	3152616		Ιō	TM1 TRANSFLUXOR	1	U	JPL	MR64	1	34	12	62	J	!	4200886	П
В	3152616		ь	TM1 TRANSFLUXOR	⊢	lŏ	JPL	MR64	<del> </del>	34		62	J.		4200573	┸
В	3152617		D	TM2 TRANSFLUXOR	l	Ιŭ		MR64		34	09 09	62	,		4200538	
В	3152617		D	TM2 TRANSFLUXOR	⊢	<del>lŭ</del>		MR64		34	09	62	J		4200573	L
Ç	3157763		1	SERVO		lυ		MR64		34	11	62	· ·		4200538	
C	3158594		1	CLAMP	╌	Ŭ		MR64		34	02	61	<del></del>		4700502	L
D	3158596		c	HOLDER MAGNETIC CORE	l	U.		MR64		34	09	62	J		4200033	
D	3158596		c	HOLDER MAGNETIC CORE	╁	Ü	JPI	MR64		34	09				4200501	L
٥	3158596		c	HOLDER MAGNETIC CORE		Ιŭ		MR64				62	J		4200502	ĺ
D	3158596		7	HOLDER MAGNETIC CORE	Н	ŭ		MR64		34	09	62			4200512	L
D	3158596		c	HOLDER MAGNETIC CORE		lŭΙ		MR64			-	62	J.		4200522	
В	3158918		Α	BRACKET CRYS MOUNT	Н	ŭ		MR64			09	62			4200538	L
3	3158919		c	CRYSTAL		ŭ		MR64				62	J		4200511	ĺ
_	3158929			STRAP RELAY CC&S	Н	ö		MR64			12		J		4200511	L
3	3158938			STRAP RELAY		ĭ		MR64				61	J		4200573	ı
_	3158949			STRAP RELAY MAN DUR	*	ŭ		MR64				62	<u> </u>		4200523	L
0	3158989			STRAP RELAY	^	ŭ		MR64	i		08	62	J			
J	3170385			HOUSING ASSY ANTENNA	$\vdash$	ŭ		MR64		34					4200503	L
J	3170397		Ā	COVER , HOUSING GEAR		- I		MR64			03		ا		4200885	i
c	3172611			HARNESS ASSEMBLY		띩		MR64				62	<u> </u>		3170401	_
	4400287			CB1 BOOSTER REG & PW	1			MR64				62	J		4200886	
	4200005		A	SHIELD LIGHT ADJ #2				MR64		34		62	J		4400285	
	4200025		в	SCHEMATIC ADS #2	- 1	- 1						62	ا د		4200002	
Ţ	4200034			CB		빙		MR64				62	J		4200033	
)	4200035			ART WORK CB1	- 1			MR64				62	١ ا		4200033	
	4200036			CB CB				MR64				62			4200034	_
	4200037	j		ART WORK CB2	- 1	~ 1		MR 64				62	i i		4200033	
	4200038			SUBCHASSIS				MR64				61	<u> </u>		4200025	_
۱,	4200044			SHELL NITROGEN TANK	- [	- 1		MR64				61	J		4200033	
7	4200045			SCHEMATIC				MR64				62	J		4201060	
١,	4200045			SCHEMATIC DIA	- 1	- 1		MR64			1	61	١		4200053	
1	4200046			TRANSFORMER		_		MR64				61			4200048	_
1	4200048			CB1	- 1	- I		MR64				61	J.		4200053	
	4200049			CB2				MR64				61	<u> </u>		4200053	
	4200050			PC TB 1	- 1	~ I.		MR64				61	J		4200053	
	4200051			PC TB2	-						22				4200048	
	4200052			SUBCHASSIS ASSY				MR 64			2		J		4200049	
_			<u>~ L</u>	200 cm 2313 N331	_Ľ	<u>, 1 U</u>	JPL [I	4R64	13	34 0	35 i	52	J I	Ĭ	4200053	

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RAWIN	G 11	S T	MARINER R				RICAL BY				PAGE	23	4-12-6
DRAWING NO.	9 a 4 M	11		*	crass	C005	SELEASE FOR PAROSES.	BESP.	84 c 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	16	DRAWING CONTROL STATUS		MEXT
4200138		-	HOLDER ASSY MANEUVER		Ū	JPL	MR64	34		61	J		4200521
4200158		1	RELAY STRAP		Ιŭ	JPL	MR64	34	05	61	J		4200533
4200168		+	RELAY STRAP	П	Ü	JPL	MR64	34		61	J		4200503
4200263		В	XFORMER PWR CONVERTE		Ιŭ	JPL	MR64	34	06	62	J		4200563
4200301		10	SUBCHASSIS GYRO	1	Ιū	JPL	MR64	34	09	62	J		4100300
4200302		ĺв	CAPACITOR SUBASSY 1		lŭ	JPL	MR64	34		62	J		4200300
4200306		15	CB1 ASSY	$\vdash$	ŧΰ	JPL	MR64	34	0.9	62	J		4200300
4200306		c	CB1 GYRO CONTROL		Ĭŭ.	JPL	MR64	34	09	62	J		4200306
420030		c	CB1 PRINTED CIRCUITY	$\vdash$	ŭ	JPI	MR 64	34	0.9	62	j		4200306
4200308		6	ICB 2 ASSY		ľŭ	JPL	MR64	34	10	62	ا ز		4200300
4200308		10	CB2 GYRO CONTROL	t	Ιŭ	JPL	MR 64	34	09	62	Ĵ		4200308
4200300		ĺε	CB2 PRINTED CIRCUITY		Ĭŭ.	JP L	MR64	34	10	62	ŭ		420030B
420030		b	CB 3 ASSY	t-	ŭ	JPL	MR64	34		62			4200300
4200310		lo.	CB3 GYRO CONTROL		ľ.	JPL	MR64	34	110	62	ا ز		4200310
420031		E	CB3 PRINTED CIRCULTY	<del> </del>	Ü	JPL	MR64	34	<del></del>	62	J		4200310
420031		lb.	CB 4 ASSY		Ŭ	JPL	MR64	34		62			4200300
4200312		늄	CB4 GYRO CONTROL	<del> -</del> -	tŭ	JPL	MR64	34	10	67			4200312
4200312		0	SCHEMATIC DIA	1	lu.	JPL	MR64	134		62			4200352
420032		+-	SWITCH AMPL SUBCHASS	┼	tŭ	JPL	MR64	34	0.4	61			4200351
420035		В	10,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	Ĭŭ	JPL	MR64	34	oz.	62	ا		4901041
420035		В	CKT BD 1 ASSY SW AMP	+	Ιŭ	JPL	MR64	34	0.2	62	J		4200351
420035		В		1	Ĭŭ	Jp_	MR64	134	02	62	J l		4200352
420035		†₽	CB1 PC SW AMPLELOGIC	t	Tu	JPL	MR64	34	0.5	62	J		4200352
420035		В	CKT BD SW AMPL	İ	Ιŭ	JPL	MR 64	34	02	62	J		4200351
420035		B	CB2 SW AMPLETE LOGIC	✝	Ü	JPL	MR 64	34		62	J J		4200354
420035		A	CB2 PC SW AMPLIFIER	1	U	JPL	MR64	34	1 -	61	J.		4200354
420037		+^	TRANSFORMER	+-	Τŭ	JPL	MR64	34	137	61			4200053
420040		٦	SCHEMATIC LONG RANGE		Ιŭ	JPL	MR64	34		63	ر		4200596
420040		A	CB4 PRE-AMP&PULSE	✝	ŭ	JPL	MR64	34		6.3	j		4200410
420040		12	CB4 PRE-AMP & PULSE	1	Ĭĭ	JPL	MR64	134	111	62	.i		4200409
420040		1>	CB14CB4 SUBASSEMBLY	t	Ü	JPL	MR64	34	0:	62	J		4200596
420041		- ^	CB4 PC PRE-AMP&PULSE	1	10	JPI	MR64	134	lai	62	ĭ		4200409
420041		1	CB1 HIGH VOLTELOW	t	10		MR64	34		63			4200410
420041		^	CB1 PC HIGH VOLTGLOW	1	lü		MR64	34	01	62	J l		4200412
420041		IA		1	Ιŭ	12: 5	MR64	34	+	63	Ĵ		4200415
420041			CB2 & CB3 SUBASSY		Ηŭ	1	MR64	34		62	ا ز		4200596
420041		-†"	CB2 PC PULSE DEMOD	+-	Ιŭ		MR64	34	01	62	J		4200414
420041		A		-	Ιŭ	-	MR64	3.4		63	J		4200415
420041		10		1	Ťŭ			34		62	J		420041
420041		1	CB3 PC REED DR ELECT	1	Ιū	JPL	MR64	134	ln1	162	1		4200417

	AWING		· •	JET PRO CALIFORNIA INS MARINER F							ALIF.	PAGE	24	4-12-63	
, r	DRAWING NO.	1.11 100.	15	TITLE	4	197	41 H204	BELLAST FOR		e 9 P.	#14.45# 017E	DRAWING CONTROL STATUS		HEKT ABSEMBLY	1
•	4200500		В	SCHEM DIA CC&S	╀	Ü	JPL	MR64		34	08 62	J		4200502	Ť
ر	4200500		В	LAUNCH COUNTER	1	Ιŭ	JPL	MR64		34	08 62	ا ز		4200503	1
	4200501	Ď١	传	CB1 LAUNCH COUNTER	1	lu	JPL	MR64		34	08 62	J J		4200501	Τ
ׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅׅ֝֟֝֝	4200501	, -	lè	CB1 ASSY LAUNCH CHTR	1	ľ	JPL	MR64	- 13		08 62	ا		4200503	
	4200502	Di	В	CB2 LAUNCH COUNTER	1	ť	JPL	MR64			08 62	J		4200502	T
7	4200502	, ,	lв	CB2 ASSY LAUNCH CTR	l	ŭ	JPL	MR64	- 13		08 62	ا ر		4200503	ı
5	4200503		ఠ	SAZ CCES LAUNCH CHTR	╁╌	ΙŬ	JPL	MR64	-	34	08 162			4901041	†
D	4200504		Ā	SUBCHASS LAUNCH COUT	l	lŭ	JPL	MR64	12	34	08 62	ا		4200503	1
_	4200505		1Ã	CB1 PC LAUNCH COUNTR	╁╌	Ιŏ	JPL	MR64			08 62	j		4200501	
	4200505		IÂ.	CB2 PC LAUNCH COUNTR	1	Ιŭ	JPL	MR64	1.	34	08 62	Ĵ		4200502	
	4200508		+~	CCGS ARRANGEMENT	+	ΤŬ	JPL	MR64		34	08 62	- j		<del> </del>	+
Ľ			A	CASE HARNESS SCHEM		Ιŭ	JPL	MR64	1.	34	08 62	Ĵ			1
<u>~</u>	4200509		18	CENTRAL CLOCK SCHEM	+-	ΙÜ	JPL	MR64		34	07 62	<del> </del>		4200512	+
	4200510		1 -	CENTRAL CLOCK SCHEM	ı	Ų	JPL	MR 64	- 1	34	07 62	اِ		4200513	
	4200510		В		╁	ΙŬ		MR64		34	08 62	<del>- j  </del>		4200511	
	4200510	1	B	CENTRAL CLK SUBAS	1	0	JPL	MR64			08 62	Ŭ		4200513	
J			B	CB1 ASSY CENTRAL CLK	╄	1 -	1	MR64		34	08 62	<del>                                     </del>		4200511	
4	4200511	PL	IC	CBI CENTRAL CLOCK		U	JPL		- 1	-				4200513	
J	4200512		В	CB2 ASSY CENT CLOCK	Ļ.	U	JPL	MR64		34	08 62	J		4200512	
Ā	4200512	PL	D	CB2 CENTRAL CLOCK		Ţΰ	JPL	MR64	- 1	34	08 62	ر		4901041	
D	4200513		C	5A1 CC&S CENTRAL CLK	4_	U	JPL	MR64		34	08 62	<u> </u>			
D	4200514		Α	SUBCHAS CENTRAL CLCK	1	U	JPL	MR64		34	08 62	١ ,		4200513	
j	4200515		В	PC CB1 CENTRAL CLOCK	1	U		MR64		34	08 62	J		4200511	
J	4200516		A	CB2 PC CENTRAL CLOCK		U	JPL	MR64		34	08 62			4200512	
J	4200520		B	MANEUV CLK SCHEM DIA		U	JPL	MR64		34		L		4200521	
J	4200520		В	MANEUVER CLOCK SCHEM		Ū	JPL	MR64		34		ا ر ا		4200522	
J	4200520		В	MANEUVER CLOCK SCHEM		U	JPL	MR64		34		J		4200523	
J	4200521		18	CB1 ASSY MANEUV CLCK	Т	U	JPL	MR64		34	08 62	J		4200523	
Ā	4200521	PL	В	CB1 MANEUVER CLOCK	1	Ų	JPL	MR64	1	34	08 62	J		4200521	
J	4200522		B	CB2 ASSY MANEUV CLCK	Т	U	JPL	MR64	i	34	08 62	[ J ]		4200523	
Ă	4200522	Pi	B	CB2 MANEUVER CLOCK	1	Ιυ	JPL	MR64	- 1	34	08 62	l _J		4200522	4
Ď	4200523	+-	B	5A4 CC&S MAN CLOCK	Т	Ū	JPL	MR64	I	34	08 62			4901041	.
D	4200524		A	•	1	Ιu	JPL	MR64	- 1	34	08 62	1 1		4200523	3
Ť	4200525	<del> </del>	Δ	CB1 PC MANEUVER DUR	1	Ū	JPL	MR64		34		J		4200521	ı
ŭ	4200526		1	PC CB2 MANEUV CLOCK		U		MR64	- 1	34	08 62			4200522	2
j	4200530	+	<del>-</del> 1∂		+	Τŭ				34	07 62	J		4200531	П
j	4200530		lc	ADDRESS REG SCHEM	1	Ιŭ			- [	34	08 62	J		4200532	2
ĭ	4200530	+	15		+	tu				34	08 62	J		4200533	3
	4200530	PL	В		-	Ιŭ		1 1	- 1	34		ا ز ا		4200531	1
Ą		12-	HA			٦ĭ				34		1-3		4200533	
j	4200531	l.,		1		Πŭ	1		- 1	34		15		4200532	
A	4200532	PL	JC		_	10					172.5	<del>-</del>		JPL 0513 JU	

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D F	RAWING	. L1	<b>S</b> 1	MARINER 6							ALF.		PAGE	25	4-12-63	3
ž	DEAWING BO.	=	1:	TITLE	i	1	******	BELEA BALLO	THE ALL	Depp.	***	110	DRAWING CONTROL STATUS		MEXT	1
J	4200532		A	CB2 ADDRESS REGISTER	Г	Ū	JPL	MR64		34	08	62	J		4200533	Ħ
	4200533		c	5A6 CCGS ADDRESS REG	L	ļυ	JPL	MR64	L	34	08	62	j		4901041	
D	4200534		A	SUBCHASSIS ADD REG	Ī	U	JPL	MR64		34	08	62	L		4200533	Т
J	4200535		A	CB1 PC MD OUTPUT	L	U	JPL	MR64		34	08	62	J		4200531	l
J	4200536		A	CB2 PC MD OUTPUT	ı	U		MR64		34	08	62	J		4200532	Τ
	4200537	<u> </u>	C	SUBCHASS END COUNTER.	L	ĮŲ		MR64		34.	08	62	J		4200573	
	4200538	1	D	CB1 ASSY END COUNTER		Įυ		MR64		34	08	62	J		4200573	
Ą		PL		CB1 END COUNTER	L	U.		MR64		34.	Q8	62	J		4200538	l
J	4200539		P	CB2 ASSY END COUNTER	1	U	JPL	MR64		34	80	62	7		4200573	Γ
Α.	4200539	PL	В	CB2 END COUNTER	<b>⊥</b>	U	JPL	MR64.		34.	٥8.	62			4200539	L
J	4200540			MANEUV DUR SCHEM DIA	1	U	JPL	MR64		34	08	62	J		4200541	l
<u>J</u>	4200540		8	MANEUVER DUR SCHEM	ட	Įυ	JPL	MR64		34.	08	62	J		4200542	
J,	4200540		В	MANEUVER DUR SCHEM	I	U	JPL	MR64		34	08	62	J		4200543	Г
A	4200541	PL	8	CB1 MANEUVER DURATON	ட	U	JPL	MR64			Q8	62	J		4200541	L
ا ا	4200541		8	CB1 ASSY MANEUV DUR	1	U	JPL	MR64			08	62	)		4200543	Γ
	4200542	PL	8	CB2 MANEUVER DURATON	L	U	JPL	MR64		34.	08	62	J		4200542	ĺ
	4200542		В	CB2 ASSY MANEUV DUR		U	JPL	MR64		34	08	62	J		4200543	Γ
	4200543		В	5A5 CCGS MAN DURATN	L	U		MR64				62	J		4901041	L
_	4200544		Α	SUBCHASS MANEUVER		U	JPL	MR64			08	62	ا د		4200543	Г
	4200545		A.	CB1 PC MANEUY DURAT	ᆫ	Ų.	JPL	MR64			08	62			4200541	L
	4200546		A	CB2 PC MANEUVER DUR		U	JPL	MR64		34		62	J		4200542	
누	4200550	-	В	INPUT DECOD SCHEM	<u> </u>	U		MR64				62	J ,		4200551	L
٠,	4200550		В	INPUT DECODER SCHEM	1	U		MR64				62	J		4200552	
-	4200550		В	INPUT DECODER SCHEM	L	U		MR64			QВ	62			4200553	L
۱:		PL	В	CB1 INPUT DECODER	Ι,	U		MR64			08	62	J		4200551	
쉬	4200551	<u> </u>	A	CB1 ASSY INPUT DECOD	_	U		MR64			08	62	J		4200553	Ļ.
٩		PL	B	CB2 INPUT DECODER		V	1	MR64	l		08	62	J.		4200552	
듥	4200552		A	CB2 ASSY INPT DECODE	ш	U		MR64			08	62	J		4200553	L
-	4200553		C	5A7 CCGS INPUT DECOD	١,	υ	JPL	MR64			08	62	J		4901041	
D.	4200554		A	SUBCHAS INPUT DECODE	Ш	U.	JPL.	MR64			08	62			4200553	L
١.	4200555		•	CB1 PC INPUT DECODER		U	JPL	MR64			08	62	J		4200551	
Ч	4200556		A	CB2 PC INPUT DECODER	Н	Ξ		MR64		34	08	62			4200552	L
	4200557		^	CB2 XFORMER RECT		U		MR64		34	80	62	J		4200563	
		PL		CB2 TRANSFORMER RECT		Ü.		MR64			08	62			4200557	L
3 (	4200558 4200559		l^l	TRANSFLUXOR TM10		U		MR64				62	J		4200573	
51	4200560		A	CB2 PC XFMR RECTIF TRANSFORMER SCHEM	Щ	V		MR64				62			4200557	L
- 1	4200560					U	JPL	MR64			08	62	J		4200563	
-	4200561	DI		XFORMER RECT SCHEM	Н	Ų.	JPL	MR64			08	62			4200557	L
		PL		CB1 TRANSFORMER RECT		U	JPL	MR64	- 1			62	J.		4200561	
_	4200561		В	CB1 XFORMER RECTIFER		U	JPL	MR 64		34	<u>08</u> i	62	J i		4200563	L_

) F	RAWING	i L1	s t	CALIFORNIA IN	STIT	UTE	OF TEC	HNOLOGY		ENA, C			PAGE	26	4-12-6	
i	DRAWING NO.	915 H	15	TITLE	1	CLASS	72.7808 COD4	BE DIAL	700 1750 7000 150	BERP.		77.	DRAWING CONTROL STATUS		NEXT ABSEMBLY	T
j	4200562		8	CB1 PC XFMR RECTIF	1	U	JPL	MR64		34	08	62	J		4200561	†
2	4200563		D	5AB CCGS XFMR RECT	L	U	JPL	MR64		34	08	62	<u>  </u>		4901041	1
)	4200564		В	SUBCHAS XFORMER RECT	L	υ	JPL	MR64		34	08	62	J		4200563	7
3	4200565		↓_	BRACKET DIODE XMFR	L	Ų	JPL	MR64	L	34	01	62	J		4200563	
	4200566	i	A	STRAP RELAY CCGS	1	Ü	JPL	MR64	l	34	08	62	J		4200563	
<u> </u>	4200567		1_	INDUCTOR XMFR RECT	L	U		MR64			01	62	i		4200563	
5	4200568		Ι.	INSULATION BD XMFR	Ĺ	ĮΨ		MR64		34	01	62	J		4200563	
3	4200569		Α	INDUCTOR BRKT XFORME	L	U	JPL	MR64			08	62	J		4200563	
	4200570		ΪĎ	END COUNTER CC&S	l	ĮΨ	JPL	MR64			08	62	J		4200573	1
J	4200570		D	END COUNTER SCHEM	L	U	JPL	MR64			08	62	J		4200538	
	4200570		D	END COUNTER SCHEM		U	JPL	MR64			08	62	J		4200539	
1	4200571		В	CB1		Ų	JPL	MR64			08	62	J		4200538	
	4200572		Ā	CB2 PC END COUNTER		U	JPL	MR64		34	08	62	J		4200539	
	4200573		В	5A3 CC&S END COUNTER		U	JPL	MR64		34	07	62	ا د		4901041	
	4200573	PL2	TC	CB1 END COUNTER	Γ	Ü	JPL	MR64		34	07	62	<del>-</del> j		4200573	
	4200573	PL5	A	CB2 END COUNTER		lυ	JPL	MR64		34	01	62	J		4200573	
	4200574		Α	TRANSFLUXOR TM7	1	Ū	JPL	MR64		34	08	62	J		4200573	
	4200575		В	TRANSFLUXOR TM8	1	lυ	JPL	MR64		34	08	62	j l		4200573	
Ī	4200576		Α	TRANSFLUXOR TM9		U	JPL	MR64		34		62	J		4200573	
	4200596		Ì⊆.	ELECTRONIC ASSY		lυ	JPL	MR64			٥6		ا ز		4800370	
	4200597			MAGNETIC SHIELD	П	U	JPL	MR64		34		62	J		4200410	٠
į	4200597			MAGNETIC SHIELD	ĺ	lυ	JPL	MR64		34		62	ا ٽ		4200415	
	4200598		Т	XFORMER MTG BRACKET	Г	u	JPL.	MR64			01	62	J	•	4200596	
į	4200599			H V XFORMER MTG BRKT	l	Ū	JPL	MR64			01	62	ا ڏ		4200596	
	4200630		A	SHIELD REG WELDMENT	1	Ū	JPL	MR64				62	J		4201060	
	4200635		la l	COVER TOP SHIELD REG	l	Ιū	JPL	MR64			1	62	ا رّ		4200630	
	4200638			TB SW AMPLFIER LOGIC	t	Ū	JPL	MR64				62	<del>- j</del>		4200640	
	4200638		1	TERM BD SW AMPL LOG	l	Ū	JPL	MR64				62	ا رَ		4200641	
	4200638		$\vdash$	TB SW AMPLFIER LOGIC	t	ŭ	JPL	MR64			02	62	<del>- j -  </del>		4200639	
	4200639			CKT BD 3 ASSY SW AMP		Ū	JPL	MR64	i			62	J l		4200351	
T	4200640		$\vdash$	CB4SW AMPLFIER LOGIC	_	Ū	JPL	MR64			0.2	62			4200351	-
	4200641			CKT BD 5 SW AMPL		ΙŭΙ		MR64				62	J		4200351	
	4200822		Ã	HOUSING PHOTOMULTPLR	-	ŭ	JPL	MR64			02	63	<del>-</del> j		4800369	
1	4200823		$  \cdot  $	STEM RESISTOR BLOCK	١.	ΙŭΙ		MR64	1			62	J		4200826	
	4200824		A	UPPER TERMINAL PLATE	$\vdash$	Ŭ	JPL	MR64			02	63	- J		4200826	
	4200825		A	LOWER TERMINAL PLATE		Ιŭ		MR64				63	ĭ l		4200826	
	4200826		D	PHOTOMULT TUBE ASSY		Ü	JPL	MR64				63	<del>-j</del>		4200822	-
	4200827		A	COIL ASSY	l	U	JPL	MR64				63	-			
	4200828		A	MAGNET ASSEMBLY	$\vdash$	٥	JPL.	MR64					<del>-</del>		4800369	-
	4200829		A	BASE COIL		Ü	JPL!	MR64	ļ		02	63	١		4800369	
_	NOTES CHANGE TO		1			U	JFL	mK 04		24	UK:	021			14200827	

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R	AWING	Li	s t					RICAL BY				PAGE	27	4-12-63	3
	DRAWING NO.	gasn mg,	9 1	ŤITLE	į	3	# E # BOB	BALEASE FOR MAJOR ITEM SERIAL FREE ELL	SCIP.		1.85 £ 17 £	DRAWING CONTROL STATUS		HEXT	T
+	4200830		$\vdash$	SCREW RAIL	-	Ū	JPL	MR64	134	06		J		4800369	t
- 1	4200831			RAIL		Ιŭ	JPL	MR64	34	1 -	62	Ĵ		4800369	1
-	4200832			HOUSING LENS	H	ŭ	JPL	MR54	34	06	62	j		4200848	t
- 1	4200833			SHADE LIGHT		Ιŭ		MR64	34	1	62	Ĵ		4200848	۱
	4200834		1	BRACKET TRANSDUCER	<del> </del> –	ŭ	JPL	MR64	34	06	62	J		4800369	1
	4200836			BRACKET CONNECTOR		li.	1	MR64	34	0.6		Ĭ.		4200596	1
	4200837		-	BRK! BOARD ATTACH	H	ΙŬ	JPL	MR64	34	06	162	<u> </u>		4200596	1
	4200838			REED CHOPPER DRIVE	1	Ιŭ	JPI	MR64	34		62	Ĭ.		4800369	
	4200839		$\vdash$	NUTPLATE CONNECTOR	┢	ΙŬ	JPL	MR64	34	06	62	- j		4200596	1
-	4200840			SPACER LENS	ļ	lu.	JPL	MR64	34	06		ا ر		4800370	1
	4200841		+	FRAME CHOPPER & COIL	1	Ĭŭ	JPL	MR64	34	06				4800369	1
1	4200842		В	CHOPPER		ŭ	JPL	MR64	1.	02		J		4800369	
1	4200843		12	MOUNT REEDS		ŭ	JPL	MR64	34		62	<del>5</del>	• • •	4800369	~
	4200844			BEARING PLATE		Ιŭ	JPI	MR64	1-	1 -	62	ŭ l		4800369	
	4200845		1	PICKOFF CHOPPER DR	$\vdash$	ŭ	JPL	MR64	34	06	162	j		4200852	-
	4200846			COVER BRAZEMENT	ł	l,	JPL	MR64	34		62	Ĵ		4200596	
	4200847		10.	HOUSING CHOPPER DR	-	ŭ	JPL	MR64	34	0.6	62	- J		4800369	-
			1	LENS ASSEMBLY		ľ	JPL	MR64	34	106	62	J I		4800370	
	4200848		-	STANDOFF BOARD MOUNT	-	K	JPL.	MR64	34	0.6	62			4200596	
	4200849		1.				JPL	MR64	34	0.2	63	7		4200822	
	4200850		+=	HOUSING PHOTOMULIPLE	<del> </del>	U	JPL	MR 64	34	06	52	······································		4800369	
	4200852		1	METRISITE REWORK	ļ	U	JPL	MR64	134	06	62	- 1		4800370	
	4200853		-	NUTPLATE	-	Ŭ	JPL	MR64	34	0.6	62			4200822	
			1	WINDOW_PHOTOMULTIPLR  INSULATING_CUP	1	U	JPL	MR64	34	00	62	Ĵ		4200822	
4	4200856			WASHER PHOTOMULTIPLE	┝	ü	JPL	MR64	34	+0-	+	J		4200822	-
	4200857					1 -	-	1 1		06	62	- 1		4800822	
	4200858	· · · · · ·	-	SHIELD	⊢	Ų	JPL	MR64	34	06.	62.			4200822	
	4200859			INSULATOR PHOTOMULT	1	υ	JPL	MR64	34	06	62	. i		4200822	
	4200860			CAP PHOTOMULT TUBE	⊢	U	<u>۱۹۰</u>			. 06	52				_
	4200861			MOUNT MAGNET		U	JPL	MR64	34	06	62	١ .		4800369	
-	4200862		+	SHIELD INSTALLATION	$\vdash$	ļu	JPL.	MR54	3.4	106	162				_
	4200863			LOCATOR BASE	l	U	JPL	MR64	1 '	106	162	J		4800370	
				ADJUSTING SCREW	┨	u	JPL	MR54	3.4	106	62			4800369	-
	4200865			PLUG POT ADJUST HOLE	l	U	JPL	MR64	34	06	62	J			
	4200866		ļ	OUTLINE	<del> </del> -	ļu	JPL.	MR64	34	06	62	i		4800370	
	4200868			LENS COVER	l	U	JPL	MR64	34	06	62	٤		4800370	
	4200872		1	CASE LONG RANGE SENS	⊢	U	JPL	MR64	34	106				4800370	
	4200873		ı	STRAP RAIL	ı	U	JPL	MR64	34	06		J		4800369	
	-200885		ļ	ANTENNA DRIVE ASSY	∤ .	U	JPL	MR64	34	110	52	<u> </u>		4101001	_
	4200886		Ì	GEAR TRAIN ASSEMBLY	ı	U	JPL	MR64	34	10	6.2	J		4200885	
	1.200887		1_	YOKE ADAPTER ASSY	L	111	J.P.L	MR64	134	عنا	62			4200885	

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	DRAWING NO.	246H 20.		TITLE	į	3	PIN PAI		7410 FEB.	BT CP.		1311	CONTROL STATUS		NEXT ASSEMBLY
1	4200888		+-	PLATE ADAPTER	H	U	JPL	MR64	7-10 114.	34		62	J		4200887
	4200889			TEE ADAPTER		U	JPL	MR64		34	10	62	j		4200887
1	4200892		Т	YOKE	1	Ū	JPL	MR64		34	10	62	J		4200885
ı	4200893			SHIM ADAPTER	L.	U	JPL	MR64		34	10	62	J		4200887
1	4201036		Α	GYRO CONTROL SCHEM	Γ	ΤŪ	JPL	MR64		34	10	62	J		4200300
١	4201037		ŀ	CB4 PRINTED CIRCUITY		U	JPL	MR64		34		62	j		4200312
1	4201038			ENCAPSULATING CAP	Г	U	JPL	MR64		34	09	62	J		4200300
	4201038			ENCAPSULATING CAP	L	U	JPL	MR64		34	0.9	62	J		4200302
	4201038		П	ENCAPSULATING CAP	Ι	U	JPL	MR64		34	09	62	J		4200303
	4201039			SLEEVE INSULATOR	乚	U	JPL	MR64		34	09	62	J		4200300
- 1	4201040			WASHER INSULATOR	ı	U	JPL	MR64		34	09	62	J		4200300
١	4201041		В	SLEEVE INSULATOR	L	U	JPL	MR64		34	09	52	J		4100300
٦	4201042		Α	WASHER INSULATOR	Г	U	JPL	MR64	[ "	34	0.4	62	J ]		4100300
ı	4201044		Α	BUSHING BOTTLE BRKT	*	U	JPL	MR64		34	11	62	Ų		4200588
	4201052			MANIFOLD YAW JETS	Γ	U	JPL	MR64		34	12	62	j		4201053
ł	4201053			YAW JETS . ASSY	L.	ſυ	JPL	MR64		34	12	62	J		4201060
1	4201054			MANIFOLD ROLLEPITCH	Г	U	JPL	MR64		34	12	62	J		4201055
1	4201055		1	ROLL JETS . ASSY	1	U	JPL	MR64		34	12	62	J .		4201060
٦	4201056		Г	NOZZLE BLANK	Г	Ū	JPL	MR64		34	11	62	J		4201057
1	4201057		1.	NOZZLE JET	Ĺ	U	JPL	MR64		34	111	62			4201060
	4201058		Г	BRK SUPPORT YAW JET	I	U	JPL	MR64		34	11	62	J		4101033
1	4201059			BLK DIAG ATTITUDE	1	lu	JPL	MR64		34	111	62	أان		4201060
	4201060		Т	SYS GAS ATT CONTROL	Г	U	JPL	MR64		34	11	62	J		4101001
Į	4201063			ADAPTER FILTER		U	JPL	MR64	<u> </u>	34	01	63	J		4201053
	4201063		T	ADAPTER FILTER	Π	U	JPL	MR64		34	01	63	J	-	4201055
į	4201300		1	TEE SOCKET WELD LP	ı	U	JPL	MR 64		34	1	1	0		4201060
	4201337		Τ	WEDGE	Π	U	JPL	MR64	Ī	34	İ		C		4201060
1	4400078			CB1 PC PW SUPPY	L	ļυ	JPL	MR64		34	12	62	j		4400312
	4400272		A	POWER SWITCHING		U	JPL	MR64		34	12	62	J		4400273
	4400272		A	POWER SWITCHING		Įų	JPL	MR 64	l	34	12	62	J		4400278
	4400272		Α	POWER SWITCHING		U	JPL	MR64		34	12	62	J		4400279
	4400273		A	4A1 SUBASY PWR SW	L	lu	JPL	MR64	<u> </u>	34	12	62	<u>J</u>		4901041
	4400277		A	SUBASSY TELEMETERING	I _	U	JPL	MR 64		34	12	62	J		4400273
	4400283		Α	CB1 ASSY PW SWITCHIG	L	U	JPL	MR 64	L	34	1.2	62	J		4400277
٦	4400286		Τ"	CHASSIS	Г	U	JPL	MR64		34	12	62	j		4400285
	4400287		1	CB1 BOOSTER REG		U	JPL	MR64	ŀ	34	12	62	J		4400285
7	4400287	PL		CB1 BOOSTER REG	1	U	JPL	MR64		34	12	62	J		4400287
	4400288			XFMR BOOSTER REG	1	U	JPL	MR64	l	34		: !	0		4400285
	4400289		Т	INDUCTOR	Ī	Ū	JPL	MR64	I	34	12	62	J		4400285
	4400290	l	A	TRANSFORMER T2	1	li)	JPL	MR64	I	134		62	J		4400287

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F	RAWING	LI	S T	. MARINER I	•	04	NUMI	RICAL BY	υIV			PAGE	29	4-12-6	
	DRAWING NO.	80.	9 :	TITLE	CHO.	11413	164801	MAJOR STIM	B(1).		* A F &	DRAWING CONTROL STATUS		NEXT ASSEMBLY	•
	4400291		1	CAPACITOR SUBASSY	†-	lu	JPL	MR64	34	1.2	62	J		4400285	
	4400295		В	PCB1 BOOSTER REG PW	ı	Ιŭ	JPL	MR64	34	112	62	ĭ		4400287	
Ì	4400296		A	PW SYNCHO SUPPLY	1	ΤŪ	JPI	MR64	34	11	62	<del>-</del> j		4400297	
	4400296			PW SYNCRO SUPPLY		Ιũ	JPL	MR64	34	10	62	ŭ		4400297	
_	4400297			4A6 SUBASY PW SYNCRO	$\vdash$	Ū	JPL	MR64	34	10	62			4901041	
	4400298		1	SUBCHASSIS PW SYNCRO		ľŭ		MR64	34	10	62	٦		4400297	
_	4400299		1-	CB1 ASSY PW SYNCRO	-	Ĭŭ		MR64	34	10	62			4400297	
	4400301		i	TRANSEMR DR PW SYNCO	ł	10	JPI	MR64	34	10	62	ا ر		4400297	
1	4400302		1	SATURABLE TRANSFMR	<u> </u>	ΙŬ		MR64	34	10	62	J J		4400297	
_	4400303		1	TRANS PWR SYNCRO		Ιŭ	JPL	MR64	34	10	62			4400297	
	4400304		T	CHOKE LI PW SYNCRO	1	Ιŭ	JPL	MR64	34	10	62	<del></del>		4400297	_
	4400305		1	CHOKE LZ PWR SYNC	[	16	JPI	MR64	34	10	62	٠, ١		4400297	
1	4400307		7-	400 CY PW SCHEMATIC		Ιŭ	JPL	MR64	34	12	62	<del>- y -  </del> -		4400297	
1	4400308		A	400 CP3 PW AMP 4A8	ĺ	Ιŭ	JPI	MR64	34	12	62	ĭ		4901041	
1	4400309		1	400 CY SUBCHASSIS	-	Ĭŭ	JPL	MR64	34		62	- <del>5</del> i		4400308	•
1	4400310		1	CHOKE , L1 PW SUPPLY	l	ŭ	JPL	MR54	34		62	<u> </u>			
1	44003.1		Ħ	400 CY TRANSISTOR	⊢	ŭ	JPL	MR64	34	12	62	J		4400308	
	4400312		!	CB1 ASSY 400 CY SUPY	ŀ	1"	JPL	MR64	34	12	62			4400308	
	4400312		A	CB I ASSY SW SUPP		ů	JPL	MR64	34		62	<u> </u>		4400308	
	4400313			CH2 ASSY 400 CY SUPY		lu	JPL	MR64	34	12	62	١ .		4400308	
-	4400313		A	C8 & ASSY PW SUPP		Ιŭ	JPL	MR64	34		62	<del></del>		4400308	
- 1	4400314			TRANSFORMER TI POWER		lu l	JPL	MR64	34			١ ,		4400308	
	440,315		1-	TRANSFORMER TI POWER	-	Ü	765	MR64	+	12	62			4400308	
	4400316			CHOKE , L2 PW SIJPPLY		U.	JPL	MR64	34		62	J		4400308	
	4400317		1	400 CY INSULATOR PW		U	JPL	MR64	34		62	<u> </u>		4400308	
	4400318			400 CY INSULATOR PW		U			34		52	7		4400308	
	4400319		+	CHOKE L3 PW 400 CY		+		MR64 MR64	34	12	62			4400308	-
	4400320			400 CY TRANSISTOR		Ų	1	MR64	34	12	62	١ ١		4400308	
٠.	4400321		<del>   </del>	2.4 KC PW SUPPLY	-	Ü		MR64	+	12	62	<del>-</del>		4400311	
	4400322			4A9_ 2400 CPS PWR AMP			JPL		34	11	62	J.		4400322	
	4406323		1	SUBCHASSIS PW SUPPLY		141		MR64	34	11	62			4901041	-
- [	4400323					U.		MR64	34	11		J		4400322	
	4400324		<u> </u>	SUBCHASS PW 2.4 KC	-	щ		MR64	34	11	62			4400322	
	4400325			TRANS 2.4 KC PW		U		MR64	34	11	62	J		4400322	
	4400325		łŀ	CHOKE L1 2.4 KC PW	-	Ų.		MR64	34	11.	62			4400322	
	4400328			BATRY CHG SCHEMATIC		lu l		MR64			62	J		4400329	
	4400329			BATRY CHG SCHEMATIC   BATTERY CHARGER 4A7		Y.		MR64	34		62			4400331	
	44003330		il			U		MR64		12	62	ا		4901041	
4 -	4400330 4400331		- +	5000 Table 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		브		MP 64	34	12	62			4400329	
	4400331 4400333			CB1 BATTERY CHARGER   PC BATTERY CHARGER	-	Ų.,		MR64			62	J		4400329	
	OTES CHANGE TO				_!	Ųŀ	JPL	MR64	34	12	62	!!		4400331	

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*	[/i	VOTE 5	CHANGE	10	PREVIOUS	LIST

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I	4400386	1_	CB1 PC PW SYNCRO		lU	JPL	MR64	1	134	110	62	رَ		4400299
Ŀ	4407381	1	CB2 PC PW SYNCRO	1			MR64		134	110	62	· j	+	
47	4400385	А	TCB5 ASSEMBLY	1			MR64		36	12	62	J		4400300
7.	4405386	А	CB5 PC PWR SWITCHING	✝	Ü		ME 64	-	3.6	13	62	J	+	4400273
ζ.	4600161		TEMPERATURE XDUCER	ı			MP 6 4			09			1	4400385
0	4730539	$\vdash$	MCPU SCHEM MONOPROPE	-	Ŭ		MP 64		34	0.9	0.1	0		4400285
1.	4800369	15	CHOPPER DRIVE ASSY	1		JPL				١.,		-	i	-700500
5	4900028	-	SUBCHASSIN MACHINES				MR 64			05		نـ		480037C
l		i	SUBCLESSIVE NIK THES	1	~	JPL	14 C 21		34	11	62	J	1	1
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-	DRAWING NO.		4 5	TITLE	:	3	75 H 80 E	BALCE	1114	1157. MT.		144	CONTROL STATUS	NEXT ASSEMBLY	1
Ļ	3151066			GROUND PLANE	ř	U	JPL	MR64	7 MEU 540.	35	0:	6.3	J	4100436	۲
				STIFFENER	l	l.		MR64		35		63		4100436	1
	3151068 3151073			CAP CONDUCTOR ANTENN	⊢	ŭ		MR64			01		J	4100322	$\Box$
12			C		l	U		MR64				63		4100324	
1	3151078		_~	PLUG SHELL CONNECTOR	├	U		MR 64			0.1		J	4100323	
	3151080	1			l	10		MR64			01		1 ~	4100331	1
	3151087			STUD THREDED 4 FT	├-	U.		MR64		35		62	<u> </u>	4100332	<del>ऻ</del> ⊣
	3151129	ľ		CONN RIGHT ANGLE	ĺ	U	1	MR64				62	, , , , , , , , , , , , , , , , , , ,	3151129	1
	3151130		8	BODY RIGHT ANGLE	├	U	10			35	n:		ا ن	3151129	<u>+</u> -
	3151131	ľ	Α.	INSUL CONN R ANGLE	1	U	JPL	MR64				:	ا د ا	3151129	1
	3151132		A	INSULAT CONN R ANGLE		U	JPL	MR64				2.1		3151129	┼┤
	3151133	1		CONTACT R ANGLE CONN	ļ	U	JPL	MR64			01			3151129	
<u>C</u>	3151135		A	COUPLING R ANGLE	-	U	JPL	MR54		35	01	63		4100324	+
В	3151157	i	8		ı	IJ	JPL	MR64		35	0 !	1.3	1		
	3151165		<u> </u>	SPACER R ANGLE CONN	⊢	Ų,		MR64			0.1	10.3	·	1151123	
	3151174	ļ	B	NUT PLAIN HEX MOD	ı	U		MR54		3.5	0.1	16.3	1 -	100320	
(	3151193	i		CLIP BRKT ELECT DISC	1_	U		MR64		+-	12	*	1	410:005	
C	3151723	1	B	ANG E SUPP INSIDE	ı	U		MR64			12.	h2	-	4101003	
1	3151724		₿	ANGLE SUPP FRAME	_	نا		MR64		3.5		144	ļ <u>-</u>	4101003	
Ć	3151777	Ī	B	BRK" ACTUATOR SOLAR	1	U	1	MP6 =		35		57	1 4	4101003	
0	3158416	i	А	SUBCHASSIS MACHINED	1_	ĮŲ		MR64		35	la:	er.	ļ <u></u>	4600327	
D	3158416	I	4	SUBCHASSIS MACHINED	1	16	JPL	MR 64		35	0.1	6.1		4600328	
lэ	3158874		В	CABLE RETAINING BRKT	1_	U	JPL	MR64		35		6.1		4901041	$\perp$
0	3172189	1	Δ	"RANSPONDER 2A3	Т	Īΰ	JPL	MR64		35	112	62		4901041	
	4100049	!	A	PIN LOCATING	1	U	JPL	MR64		3.5	1:	16%	<u> </u>	4101003	
B	4100143		A	GUSSET SUPPT STRUCT	Т	U	JFL	MR64		35	0.1	163		4100152	1
1.2	4100148	1	A	DOUGLE SUPPT STRUCT	1	lυ	JP:	MR64		35	14	13%.	J	4100336	
Ť	4100149	<del> </del>		STIFFENER SUPP STRUT	1	Ū	JPL	MR64		35	50	63		4100335	T 1
	4100151	1		CHANNEL WELD STRUCT	ı	ľċ	JPL	MR64		35	1.	62	1	36 د 4100	1
	14100152		ĺΒ	CHANNE WELD STRUCT	7-	U	JPL	MR 64		35	177	152	] . [	4100336	1
Lä	4100153	ļ	A	CHANNEL WELD STRUCT	ı	ĺυ	JPL	MR64		35	112	102	1	4100151	
Ti.	4100153		A	CHANNEL WELD STRUCT	Т	Īυ	JPL	MR64		3.5	12	6.5		4100152	
1	4100154		B			Ĭ.	1 '	MR64		35	li:	167		4100336	
-	4100155		A	BRACE PIVOT ARM	1-	Īΰ	JPI	MR64		3'5	0:	63		4100336	1
1	4100159		A		1	10	1	MR64		35	1.5	162		4100321	
É	4100190		B	DOUBLER SUPPT STRUCT		Tu	JPL			3 5	100	ite		4100151	1
10	4100190	1	18	DOUBLER SUPPT STRUCT		Ιŭ				35	11:	162		4100152	
15	4130190	+	TR	DOUBLER SUPPT STRUCT		ŤŬ		MR64		35	1.	162		4100330	
9	4100191		A			Ιŭ	1	MR 54		13.5	10.	163		4100154	
18	4 100194	+	A	RING FLANGE INNER	+	Ťΰ				135	11	102	T	4100336	
L	4100195		A			li				3.6	la:	163		4100321	3
	HOTES CHANGE	10 8054	_			, ,	, , , ,	15010 24 1			10-		· · · · · · · · · · · · · · · · · · ·	JPL 0513 JUN	1E 61

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CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. 4-12-63 PAGE 3.2 MARINER R 64 NUMERICAL BY DIV DRAWING LIST 35 01 63 35 12 62 35 17 62 35 17 62 35 17 62 35 17 62 35 17 63 35 17 63 35 17 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 A DOUBLER RING FLANGE
A STRIP CUTER SUPPT
A STRIP RAUIAL ANTENNA
B LOUVER INSTALLATION
B HOUSING ASSEMBLY
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A RETAINER SELF-LOCKNO # # TENER \*\*\*\* HEXT ABSEMBLY DRAWING NO. BASH TITLE U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 B 4100196 D 4100198 C 4100199 J 4100200 4100336 4100321 4100321 4901041 U JPL MR64 U JPL MR64 U JPL MR64 0 4100201 0 4100202 C 4100203 J 4100204 U JPL MR64 U JPL MR64 D 4100204 B 4100209 B 4100209 4101060 4100201 U JPL MR64 U JPL MR64 U JPL MR64 4100202 4101064 4100209 4100209 4100210 U JPL MR64 U JPL MR64 U JPL MR64 4101065 +100419 4100210 4100210 | 0 | 4100210 | 0 | 4100211 | 0 | 4100213 | 0 | 4100214 | 0 | 4100214 | 0 | 4100215 | 0 | 4100215 | 0 | 4100213 | 0 | 4100213 U JPL JPL MR64 4100210 4101062 4100214 ادر MR64 JPL. MR64 A RETAINER SELF -LOCKING I IP MR64 4100214 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 01 63 35 12 62 A WASHER A BEARING MR64 MR64 U JPL MR64 U JPL MR64 410021+ A BARKING
A PAD
B RACK INSTALLATION
B RACK INSTALLATION
A ACTUATOR SPIRAL COIL
A TUBE SUPERSTRUCTURE
B ANTENNA 4FI ASSY
A REFLECT HI GAIN ANTI
A DUTER CONDUCTOR ASSY
B INNER CONDUCTOR ASSY
B INNER CONDUCTOR ASSY
B ODDUCTOR INNER ANTE
A BLOCK SHORTING DIPOL
CONDUCTOR INNER ANT
A FEED DIPOLE FLEMENT
A SLEEVE FEED ELEMENT
B SUPPORT PIVOT ARM
B SUPPORT PIVOT ARM
L ONGERON ASSEMBLY 8 4100213 - 4100223 - 4100223 - 4100228 - 4100317 4100214 U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 4600457 4100204 4101340 4101001 4100320 JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 35 | 12 | 62 | 35 | 01 | 63 | 35 | 01 | 63 | 35 | 01 | 63 | 35 | 01 | 63 | 36 | 01 | 63 | 3 4100321 3 4100323 C 4100324 C 4100325 B 4100327 C 4100327 4100322 4100322 4100324 4100324 U JPL MR64 U JPL MR64 U JPL MR64 01 63 35 01 63 35 01 63 35 12 62 4100328 4100323 4100323 4100321 4100330 4100331 4100332 U JPL MR64 U JPL MR64 12 62 C1 63 C1 63 A LONGERON ASSEMBLY
A HIGH GAIN ANTENNA
A STUD SLOTTED ANTENNA 4100320 U JPL MR64 U JPL MR64 63 4100331 4100333

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				MARINER							CALIF.		PAGE	3.3	4-12-6	_
) F	RAWING	LI	ST			٠.	.,0,,,						77.02	,,,	4-12-0	_
:	DRAWING NO.	***	4 :	TITLE	į	1177	******	at La	1114	PESP.		LASS	DRAWING		MEST	٦
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)	4100334		Ā	HUB SUPPT STRUCT ANT	Г	Ū	JPL	MR64		35		62	J		4100335	Ξ
_	4100335		A	HUB ASSY HI GAIN ANT	L.	Ų	JPL	MR64				62	J		4100336	,
ļ	4100336		A	SUPPT STRUCT ASSY	1	Ü	JPL	MR64	i	35	12	62	J		4100321	
}	4100337		Α	SCREW SHORTING BLOCK	_	U	JPL	MR64	İ	35	01	63	J		4100322	
	4100339		Α	SLEEVE INSUL ANTENNA		U	JPL	MR64		35	01	63	J		4100335	
	4100380		Ü	SUPPORT ALD SC MACH		U	JPL	<b>MR64</b>	1	35	01	63	J		4101003	
	4100381		¢	SUPPORT BEE SC MACH	Г	Ū	JPL	MR54		35	12	62	J	•	4101003	•
_	4100382		C	SUPPORT A SC MACHING		U	JPL	MR 64		35	01	63	J		4101003	
	4100386		A	FITTING	Г	U	JPL	MR64		35	12	62	J		4101003	
	4100387		Α	TUBE		U	JPL	MR64		35	12	62	J		4101003	
	4100388		A	STIFFENER DIAGONAL	Π	U	JPL	MR 64		35	12	52	J		4101003	
	4100389	_	A	BRKT ARMING SWITCH	1	lu-	JPL	MR64		3.5	12	62	,		4101003	
	4100390		Ā	BACKTIE	1	Ü	JPL	MR64		35	12	62	J		4101003	
	4100391		Α	TUBE STRUCT K BRACE	İ	u	JPL	MR64		35	12	62	J		4101003	
	4100392		Α	BRACKET K BRACE		U	JPL:	MR 64		35		52	J		4101003	
	4100393		Α	BRACKET K BRACE		U	JUL	MR64		35	12	62	j l		4101003	
	4100394		А	END FITTING STRUCT K	Т	Ü	JPL	MR64		35	12	62			4101391	
	4100395		A	FICTING TUBE		U	JPL	MR64		35		62	ا		4101003	
Ī	4100396		A	BPKT REFERANCE PLATE	1-	Ū	JPL	MR64				62	<u> </u>		4101003	
	4100397		A	BRKT ARMING SWITCH		ΙŭΙ	JPL	MR64	- 1			62	J		4101003	
	4100399			ADAPTER SUN GATE	1	Ū	JPL	MR64		35	12	62	<del>-</del>		4101003	
	4100418			MIRROR ACTUATION IND		ارا	JPL	MR64	į		01	63	J.		-100419	
1	4100419			LOUVER INSTALLATION	Η-	ŭ	JPL	MR64			01	63	<del>- 5</del>		4101001	
	4100429			MIRROR		انا	JPL	MR64		35		63	j			
-	4100436		A	GROUND PLANE ASSY	-	Ü	JPL	MR64				63			4100418	
	4100437		1 1	HUB GROUND PLANE ANT		U	JPL	MR64		1		- 1	- 1		4100323	
1	4100438		A	INSULATOR HI GAIN	-	٧.		MR64			01	63			4100436	
1	4,03439		Ā	DOUBLER PIVOT ARM	i	U		MR64					١ ,		4100324	
1	4100440			TRANSFORMER GOAXIAL	-	Ü	JPL	MR64				62			4100336	
Į	4100511	,	^	BODY FUEL MANIFOLD					- 1		1	63	J		4100324	
i	4100516			TANK SHELL NITROGEN	-	Ų.	JPL JPL	MR64		35	-	62	<del></del>	_	4700510	
ļ	4100517			MANIFOLD BOY NITRO		U						62	J		4700515	
1	4100518		-	BODY NITRO VALVE		¥.	JPL JPL	MR64			12	<u> 62</u>			4700515	
1	4100529			CARTRIDGE OXI ASSY		U	1	MR64				62	7		4700563	
1	4100531				$\vdash$	lu l		MR64				62	J		4700528	
İ	4100531		١.	CARTRIDGE CXI WELDMT   FITTING OXIDIZER   1		U		MR64				62	J		4700529	
+	4100933				_	U		MR 64		35		62	_ <u>J</u>		4700532	
-7	-	- 1		BODY VALVE ASSEMBLY		U		YR 64	- 1			62	J		4700532	
	4100535			NUT COUPLING	-	U		MR 64		35		62	J		4700532	
1	4100537			BODY FILL VALVE		U		MR64				62	J		4700519	
J	4100537			BODY FILL VALVE		U	JPL	MR64		35	12	62	J ]		4700536	

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MARINER R 64 NUMERICAL BY DIV PAGE 34 4-12-63 DRAWING LIST 35 12 62 35 12 62 35 12 62 35 12 62 35 12 62 35 12 62 35 12 62 BRAWING NO. DRAWING CONTROL STATUS 80. d i y yempot MERT ASSEMBLY C 4100542 J 4100549 J 4100550 D 4100552 C 4100553 BRKT ELECTRIAL VALVE FUEL 2- WAY BODY FUEL VALVE 2-WY U JPL MR64 4700541 WALVE FUEL 2- WAY
BODY FUEL VALVE 2-WY
ADAPTER ENGINE FLANG
CLAMP OXIDIZER
HEX STRUCTURE ASSY
SUPY C SPACECRAFT
FITTING FOOT C
BRKY ATTITUDE CONTRL
MAG SUPPORT ASSY
BRACE HEX STRUCT
FLATE STA 438-281
LATCH UPBER SOL PNL
LINK LATCH SOL PNL
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CAP CONDUCTOR
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EED DIPOLE ELEMENT
FFUE FEED ELEMENT 4700541 4700505 4700549 4700527 4700527 4101002 4101003 U JPL MR64 U JPL MR64 JPL MR64 0 4101003 JPI MR64 MR64 35 01 63 4101011 JPL MR64 35 12 62 35 12 62 4101003 4101021 4101025 JPL MR64 JPL MR64 JPL MR64 JPL MR64 35 4101002 5 4101026 5 4101027 01 63 0 4101002 C 4101029 C 4101030 JPL MR64 JPL MR64 35 35 35 Ω 4101028 C 4101030 B 4101031 MR64 MR64 ا فرا با 4101028 B 4101031 B 4101032 - 4101040 C 4101041 J 4101042 C 4101043 35 35 4101028 4101002 U JPL MR64 U JPL MR64 U JPL MR 35 0 U JPL MR64
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U JPL MR66 4101040 35 35 0 4101040 4101042 4101042 3 4101044 C 4101045 B 4101046 OUTER CONDUCTOR FEED DIPOLE ELEMENT SLEEVE FEED ELEMENT 35 35 4101042 35 35 35 0 4101047 0 4101048 GROUND PLANE ASSY 4101042 4101049 STIFFENER GROUND PLN HUB GROUND PLANE U JPL MR64 35 35 35 35 35 4101047 U JPL MR64 U JPL MR64 C 4101051 C 4101051 C 4101053 C 4101054 B 4101055 B 4101056 INNER CONNECTOR ASSY PLUG INNER CONDUCTOR 4101040 U JPL MR64 U JPL MR64 U JPL MR64 U JPL MR64 STUD CONDUCTOR INNER 4101051 4101051 BLOCK SHURTING 4101051 4101051 4101051 35 35 35 U JPL MR64 U JPL MR64 INSULATOR
TRANSFORMER COAXIAL
SCREW SHORTING BLOCK
LOUVER INST BATTERY
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MR 64

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R	AWING	LI	ST	MARINER F							•	24(j£	35	4-12-6	3
1	CRAWING NO.	ØASH No.	3 2	TITLE	5	CLASS	C00E	MAJOR ITEM			AT L	DRAWING CONTROL STATUS		MEXT ASSEMBLY	1
1	4101063	_	1	LOUVER ASSEMBLY	T	U	JPL	MR64	35	01	63			4101062	
1	4101064			HOUSING ASSEMBLY & H	l	U	JPL	MR64	35	01	63	1		4101061	_
	4101065		+	HOUSING ASSUMBLY R H	1-	Ū	JPL	MR64	35	lo i	63			4101061	
	4101066			PLATE ENU	1	lu	JPL	MR64	35	0.1	0.5			4101061	
	4200033		to	ACCELEROMETER & ELEC		ΙŪ	JPL	MR64	35	117	57	J		4901041	
	4200053	i	lc.	7A19 CELEST RELAYUPW	1	ľ		MR64	35	liz	ln2	J.		4901041	
4	42003348	<del> </del>	A	TRANSFORMER	+	Ĭŭ	JPL	MR 64	35	67	161			4200053	
	4200368	l	le.	7A1 ATT CONT SUBASSY		Ĭŭ.	JPL	MR64	3.5	112	1	ار		4901041	
_				COVER . A. IGNMENT	╌	H	JPL	MR 64	35	1:5	162			4901041	-
	4200642		A		1	10	JPL	MR64	1 -	01		j		4201096	
	4201074	<u> </u>	A	SCHEMATIC PYRO CONT	╁╌	Ų.			35	144	102	3		4201097	
	4201075	ļ	1	CB1 ASSY PYRO CONT		U	JPL	MR64		1	1 1			4201075	
	4201076		-	TB1 PYROTICHNIC CONT	╄	U	JPL	MR 64	35	<del> </del>	+	- 2		4201073	
	4201077	İ	i.	RELAY CONTAINER I		Ų	JPL	MP64	3.5	1	1				
	4201084	L	1	CRS BAINIED (TREDIT	1-	IJ	JPL	MR 64	35					4201098	
	4201085		1	CBE ASSY PIRO CONT	1	U	JPL	MR64	35		1 1	2		4201097	
	-201086			TB3 PYROTECHNIC CONT	_	U	JPL	MR64	35					4201085	
	-201087	T	1	LIBA ASSY TYPO CONT		ي ا	JPL	MF 64	35		1 1			4201097	
	4201088		1.	154 PEROTECHNIC CONT	1_	U		MR 64	3.5	.]	1 1	·		4201087	-
	4201089			135 PEROTURNIC CONT.		U	JPL.	MP 64	3.5		1 1	, J		4201097	
	4201090	l		CB6 ASSY FIRE CONT.	1_	U	JPL	MR 54	يئ في أ		4. 1	2		4261097	-
	4201091		Ì	TBS PYROTECHNIC CONT.	i	U	JPL	MP64	3.5		1 1	5		4201090	
	4201092			CBI ARSH PYRO CONT	1	Ų	JPL	MR 64	35					4201097	-
	4201093	1		THE PAROL-CHNIC CONT	Τ	IJ	JOL	MR64	3.5	1		÷,		4201092	
	4201194			RELAY CONTAINER 2	i	U	JPL	MR64	3.5	;	1	<u> </u>		4201097	1
	4201095	T	- [ -	ISUSCHASSI: FYRO CONT	T	U	JPL	MR64	3.5			0		4201097	f
	-201096	1	ļ	PEROTECHNIC CONT BAL		Ιψ	JPL	MR64	135		1	Ü			
	4201097	t	-	BLOCK WIRING DOM	1	Ťű	JPL	MR64	3.5			J.		4201096	٥
	4201098		1	CBZ ASSY PYRO CONT	1	U		MK54	35		1			4201097	į
	4201098	P.	+-	CB2 ASSY PYRO CONT	+-	Ü	JPL	MR64	35			ð.		4201098	3
	-201332	1		POTTING PROCEDURE	1	l.	JPL	MR64	145			Ó		4201097	ż
	4300187	<del> </del> -	Ē	TRANSPONULE 241	-	Τŭ		MR64	3.5	1.2	152			4901041	
		l	- 1			1,	JPI	MR64	35			_		4901041	-
	4300185	<del> </del>	. L	TRANSPONDER 2A2	+-	10	+	MR64	3.5			1		4901041	_
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	4 3 0 0 2 0 5	1	15		!	lu			35			4	ļ	4400392	
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	4400127	1	15	CHASSIS FOWER		1 -	1	1		1	1	1 7		4400285	
	<u> 14400284</u>	1 _	_	ERCHEM BÖDDER BAKTT-	4	U		+	2.5		1.2				
	14400284			SCHEM BOUSTER PWR		U		1 - 1	1.55			~	1	4400287	
	144002855	1		BOOSTER REG HAH PWR	١.	U	HJPL	MHO4	135	. 112	162			[490104]	Ţ

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K	AWING NO.	JASH	31	TITLE	Í	E C	71 000t	BELEASE FOR MAJOR ITEM	100	DELTER TATE	DRAWING CONTROL		NEXT ASSEMBLY	
ļ		No.	1 1		Ľ	1		MR64	35	1 62	STATUS		4400285	+
	4400286			CHASS EDOSTER REG	ı	U	JPL	MR64	35	12 62	~ 1		4400287	- 1
	4403287	PL	11	BOOSTER REG 5 PW	-	분	JPL	MR64	135	12 52			4400285	
4	4400288	l	1	TRANSFORMER TI		Ĭ.	JPL	MR64	35	12 62	ا ٽ		4400285	
	4400289	L	1-1	INDUCTOR L1	├-	H	JPL	MP 64	35	12 62	- 3		4400287	
1	4400290	i	1 1	TRANSFORMER T2	ı	lu.	T	MR64	135	12 62	- i		4400285	
١	4400291	1		SUBASSY-CAPACITOR	ļ_	1 "		MR64	35	12 62			4400291	_
	4400292			CHASSIS CAP BOST REG	1	U			35	12 62	- 1		4400285	
ч	4400294			CAPACITOR CLAMP	┞-	U	1	MR64	35	12 62			4400390	_
1	4400389			COVER BATTERY	1	U	-	MR64	35	01 63	1		-901041	
-	440U390		A	BATTERY ASSY 4A14	1	U	JPL		35	4	<del>-i</del> -		4400390	
1	4400391			CHASSIS BATTERY	1	U	JPL	MR64	1	1 - 1			4901041	
ļ	4400392		1_	CHASSIS . PW ASSEMBY	┖	Ų		MR64	35	12 62	<del></del>		4200049	
	4500045		A	SCHEMATIC	ı	Tu	Jac	MR.64	1	05 (41	- 1		4500171	
ı	4500152	1	a	SHIELD . PHASSIS ASY		U	1	MR64	35	12 62			49015-1	
1	4500153	1	ii.	TOP SHIELD ASSY 3	ļ	U		MR54	35	14 64	-		1	
ļ	4500171		٥	CHASS'S ASSY DATA		U	1	1	35	12 62			4010	
	4600317	_	1	ZAG SUBASY CLABAND	I	L	JPL	-	2.5	12 67			4961043	
	4500313	1	14	CIRC & PWH MON 2A6		U	1P.	MR 64	35	4				
-	2 E 0 0 3 1 8	† —	15.	COMMUNICATIONS 2A5	T	U		MR 64	3 %	12   94			-961041	
	460J327	1	-	541 ANALOG-DIG CONV	1_	Į i		MR64	35				4401041	
	4e00325	1	Ĭ,	CONTROL LWG 5A1	1	1			3.5	10 10			- +0 ± 0 ± 1	
	4500324		10	CONTRUL WWG 6K2	L	JU			30				- 20104	
	4500325		0	CONTROL DWG 6K1	Т	ΨU		MR 54	3.5	01 63	-		+40104	
	±50€326	j	1	CONTROL DWG 6MT4		U		1	35				4901041	
	4600327	+	10	CONTROL DWG 6MT3	Т	U		1	35	12 62	·		4401041	
	7600328		10	PN GEN CON! DWG 6MT2		Įυ	I JPL		3.5	- demands			4901041	
	4600329	+	t	CONT DWG ENCODER TZR	1	U	JPL	MR 64	35		ان		490104	
	0000457			CHASSIS	1	l	I JPL	MR64	5.7	17 52			490104	_
	500458		+	SHIELD , COVER L BND	7-	L	JP:	MR64	3.5		ال		460045	
	1-600459	1	Ļ	COMMAND DECODER 3A3	1	Ìι	JPL	MR64	35	12 62	J		490104	
	4630460		- +	COMM DET 5 3A2 BOT/R	T	T	JPL	MR64	35	12 62	j		490104	
	-500461			COMM DET BAL SUBASY		l	JPL	MR64	3.5	14 62	<u></u>		490±04	
-	-600957		-	CHASSIS ASSY L BAND	1	Ti	JPL	MR64	3 5	17 52	J.	1	490104	
	4700544	1	İ	PLATE THRUST	1	Ţι	J JP€	MR64	3.5	12 62	<u> </u>		470054	
	4703564		+	PLUG VALVE	$^{\dagger}$	-1	JPL	MR64	3.5	12 :62	J		470054	
	4 700569			BRKT MTG MIDCRS MTR	1		JPL	MR64	35		0	!	470102	
	4700570	1	+	TBEKT WIS MIDGES MIR	+	1	JP	MR64	3 :	i i i	9		470102	
	4800040		10		i	Πı	JPL	MR64	39	10 61	J		430018	_
-	4800040		-4%	SUBCHASSIS XPONDER	-†-	-+`	JPI	· · · · · · · · · · · · · · · · · · ·	3 :		1		430018	٤
	4800326	1	A		,	+ 1	I JPI		3 :		ز ا		480088	3

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R	AWING	L 1	s t	MARINER				RICAL BY			PAGÉ	3.7	4-12-6	3
	DRAWING NO.	DATH NO.	4 5	TITLE	1	3	TEMPOS COSE	MAJOR ITEM SERIEL THEO SER.	GESP.	DATE BO. 18.	CRAWING CONTROL STATUS		NEXT ASSEMBLY	Ī
1	4800807		+-	IR RADIOMETER 2741	+	Ū	JPL	MR64	35	12 62	J		4800881	+
1	4800815		1	SCI PWR SW		Ιŭ	JPL	MR64		11 62	J I		4800823	
1	4800815		18	SCIENTIFIC PW DIAG	T	ΙŪ	JPL	MR64	35	12 62	J		4800823	1
ı	4800815		A	SCIENTIFIC PW SCHEM		Ιū	JPL	MR64	35	11 62	j l		4600823	
1	4800845		1-	MAGNETOMTH 22A1	+-	ŭ	JPL	MR64	35	12 62			4800854	_
	4800846		1	MAGNETOMTR 22A2		Ĭŭ	JPL	MR64		12 62	j l		4800854	i
	4800847		$\vdash$	MAGNETOMTR 22A3	╁	Ιŏ	JPI.	MR 64	35	12 62			4800854	-
	4800848		1	DATA SYSTEM 20A21		ľů	JP!	MR64	35	12 62	Ĭ.		4800854	
j	4800849		+	DATA SYSTEM 20A22	+-	ŭ	JPI	MR64	35	12 62	J		4 2 00 8 5 4	-
1	4600850		1	DATA SYSTEM 20A23		ŭ	JPI	MR64	35	12 62			4800854	
-	4800851		+	DATA SYSTEM 20A24	+-	U	101	MR64	35	12 62	<u> </u>		-60065-	-
1	4800852		1	DATA SYSTEM 20A25		Ĭ.	JPL	MR64	35	12 62	ŭ l		4800854	
	4800853		$\vdash$	2046 DAS 1/8	+	Ü	JP.	MR64	35	12 52	<u> </u>		4901041	•
	4800854		ı	ELECTRONIC ASSY 1		ŭ	JPL	MR64	35	01 63	-		+901041	
	480C858		-	CB1 ASSY CHANNE, NOZ	+-	10	JPL	MR64	35	12 62	J		4800855	-
		Pι	1	CB1 PREAMP CHANL NOT		U	- PI	M864	35	12 62	ا د		+800858	
į	4800860	<u></u>	+	CB2 ASSY CHANN NOTE2	+	ii.	JPI	MR 64	35	12 62	<del></del>		14600856	
	4800860		1	CB2 ASSY CHANN NOISE	ŀ	Ĭŭ.	JP!	MR 64	35	12 62	J.		-80087h	
		PI	+	CB2 PREAMP CHAN: 162	+-	Ü	JPL.	MR 64	35	12 62	<u> </u>		14800800	
	4800861		1	CB2 PC CHANN NOIGNOZ		ŭ	JPL	MR64	35	01 63	· ·		-800860	
	-800862		+-	SHIELD PREAMP IFIER	+	ŭ	19[	MR64	35	12 62			4600856	-
	4800862		1	SHIELD PREAMPLIFIER	1	Ĭŭ	JPL	MR64	35	12 62	J		4800876	
	4800876		+	PREAMP SUBASSY NOT	+-	łĕ	JPL	MR64		12 62	<u> </u>		4800881	-
	4800878			CB1 ASSY CHANN NO 1		ľ	JPL	MR64	1	12 62	j l		4800876	
		PI	1	CB1 PREAMP CHANL NO1	+	ŭ	JPL	MR64	35	12 62			4800878	
ı	4800882	FL	1	RADIOMIR CHASS ASSY		U	JPL	MR64	35	01 63	j l		4800881	
	4800883		+	CHASSIS ASSEMBLY	+-	ť	JPL	MR64	35	01 63	<del>- 1</del>		4800854	-
Ì	4800884		1	20A1 SCI PWR SW		Į,	JPL	MR64	35	01 63	ű l		4901041	
1	4800885		+-	SUBCHASS ASSY POWER	+	ŭ	JPL	MF 64	35	12 62	<del>- j</del> <del> </del>		4500884	
	4800941			WAVEGUIDE COUP 35GC		U	JPL	MR64	35	01 63	,		4800881	
	4600942		+-	DIRECT COUP 10 DB	+-	ŭ	JPL	MR64	35	01 63			4800881	-
ļ	4800942			WAVEGUIDE COMPLER			JPL	MR64		01 63	7		4800881	
	4800944		+-	SWITCH 35 G C CONT	+-	Ü	JPL	MR64	35	01 63	٠- ا		4800881	-
	4800944			MOD COUP 950 CONT DW		u u	JPL	MR64	35	01 63	,		4800881	
	4800950		1-	WAVE GUIDE SUBASSY	+-	Ü	JPL	MR64	35	01 63			4800881	•
	4800952		1	VIDEO DET KA BAND		Ü	JPL	MR64	35	01 63	J		4800881	
	4600953		+	VIDEO DET X BAND	-	Iŭ.	JPL	MR64	35	01 63	<del>-j</del> -		4800881	-
	4800954		1	TERM NOISE SOURCE		ľ	JPL	MR64	135	01 63	,		4800881	
	4800955		+	WAVEGUIDE SUBASSY 1	+	łŭ	191	MR64	35	01 63			4800881	-
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_		P418	10		7	ĪŦ	75 8 84 1	MALCASE MALCASE		***		114	DRAWING	MITT
	DRAWING NO.	BO.	5 =	TITLE	3	3	5001		**** 11#.	DIV.	¥0.	7.0	CONTROL	HEXT ASSEMBLY
	4800957		П	BEND H-PLANE	1	U	JPL.	MR64		35	01	63	J	4800881
	4800958		L.	BEND E-PLANE	l_	U	JPL	MR64		35	01	63	J	4800881
	4800959		I	V-BLOCK ASSY		U	JPL.	MR 64		35	01	63	J	4800881
	4800960			BRKT COUPLER NO 1	l	U	JPL	MR64		35	01	63	ا	4800881
	4800961			BRACKET .COUPLER 2	Г	U	JPL	MR 64		35	01	63	J	48008RI
	4800962			BRACKET SUPPORT	ļ	U	Jol	MR64		35	01	63	ا ز	4800881
	4800963		Γ.	BOSS MOBILE	Π	U	JPL	MR64		35	01	63	J	4800881
	4800768			BUSHING PIN STOP		U	JPL	MR64		35	01	63	J	4800882
	4305969		Г	BRKT CONN MOUNTING	Γ	U	JPL	MR64		35	0.	63	j	4800881
	4800976			SHIELD CHASS'S ASSY		U	JPL	MR64		35	01	63	J	4800863
	4800979		Γ	23A3 SWEEP AMP:	Г	Ū	JPL	MR64		35		ГТ	0	4901041
	4800985			23A1 SOLAR PLASMA EL		U	JP!	MR64		35		1	C	4901041
	4800991		1	23A2 PROGRAMMER	1	U	JPI	MR 64		35			0	490.041
	4801004		١,	OP SHIELD CHASSIS	l	U	JP	MR64		35	0.1	63	ا ر	4901041
	4900033		A	SUBCHASS MACHINED	T	ť.	JPL	MR 54		35		62		4600329
	-90J252			RING MARNESS INSTE	ĺ	ij	JPL	MR64		35	12	62	ا ر	4900255
	4900256		T	CAPLING INST SPCRAFT	1	U.	JPL	MR 64		35	0.1	6.3	J	4150310
	4900300		A	TROUGH TESTION ASSY		U	JPL	MR64		35	12	52		4900313
	4900301		A	COSSET TROUGH	1-	U	JPI.	MR64		35	12	62		4900311
	490030.		A	GUSSET TROUGH	1	Ū.	JPL	MR64		35	12	52		4900316
	4900301		Ā	GUSUET 190UGH	1	Ū	JPL	MR64		35	12	62	J	4900312
	4900301		A	GUSSET TROUGH		Ú.	JPL	MR64		35	12	62	J	4900313
	4900301		A	GUSSET TROUGH	t –	ĺΰ	JPL	MR64		35	12	62		4900314
	4900301		А	GUSSET TROUGH	1	Ū	JPL	MR64		35		62	j l	4900314
	4900301		A	GUSSET *POUGH	1	Ü	JPI.	MP64		35	12	62	- <del></del>	4900315
	4900302		l <sub>A</sub>	SHIM TROUGH HARNESS		U	JP!	MR64				62	-	4900318
	4900303		A	GUSSET TROUGH	-	ŭ	JPL	MR64	-	35	12	62	<u>5</u>	4900318
	4900364		А	HANGER TROUGH		U	JPL	MR64		35	12	62	ا ر	4900318
	4900305		Α	TROUGH SECTION ASSY	<del> </del>	Ŭ	JPL	MR64			12	62	J	4900318
	4900308		A	GUSSET TROUGH		انا	JPL	MR64	ı		12	62	J. I	4900315
	4900308		A	GUSSET TROUGH		ŭ	JPL	MR64		35	12	62	J	4900313
	4900309		A	TIE PLATE TROUGH	1	ŭ	JPL	MR64		35	12	62	j	4900300
	4900310		Ā	GUSSET TROUGH		ΙŭΙ	JPL	MR64		35	12	62	J	4900311
	4900311		A	TROUGH SECT ASY BAYS		U	JPL	MR64	- 1	35		62	J	4900306
	4900312		Ā	TROUGH SECTION ASSY	1	ŭ	JPL	MR64		35	12	62	- j	4900305
	4900313		A	TROUGH SECT ASY BAYS	l	υ	JPL	MR64		35		62	j l	4900305
	4900314		A	TROUGH SECTION ASSY	$\vdash$	Ü	JPL	MR64			12	62	J.	4900305
	4950316		A	TROUGH SECTION		Ü	JPL	MR 64		35		62	j	4900305
	4900318		A	GUSSET TROUGH		Ü	JPL	MR64		35		62	J	4900327
	4900319		Â	GUSSET TROUGH	ı	U.	JPL	MR64		35		62	J	4900327

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Γ.		B458	144		١.	:	V E N D D S	11.11	3 C FOR	atsr.		1455	DRAWING	HEXT	3
1 5	DRAWING NO.	NO.	4 1	TITLE	3	3	C001	BC 87AL	7 PEU SEP.	9(2		71.	CONTROL STATUS	ASSEMBLY	é
(	4900320		A	GUŞŞET TROUĞH	1	U	JPL.	MR64		35	12	62	J	4900312	T
C	4900321		4	CONNECTOR BRKT LEG A	l .	U	JPL	MR64		35	12	52	ا	4900328	
C	4900322		Á	GUSSET TROUGH		U	JPL	MR64		35	12	52	J	4900328	
В	4900325		1	STUD PLATE		U	JPL	MR64		35	12	62	J	4900318	
C	4900326		П	GUSSET TROUGH		Ų	JPL	MR64		35	ŋ	63	J	4900312	
<u>_</u>	4900329		1	CONNECTOR BEKT LEG E		ĮΨ	JPL	MR64		35	0 -	63	ر	4900510	1
T	4900505		â	BRKT DA 15 CONNECTOR		Ū	JPL	MR64		35	12	62	_	4901054	
L	-90J510		1_	CABLING INSTALLATION		ľ	JPL	MR64		35	İ		0		!
	4900511			9W1 RING HAPN SIG		U	JPL	MR64		35			0		i –
L.	4900512		<u> </u>	9w2 CASE MARN COMMUN.	<u> </u>	U.	JPL	MR64		35	0.	63		4900510	<u> </u>
!	49005131	ı		9W3 CASE MARN COMMND		U	JP L	MR64		35			0	i	1
L	4900514			9W4 CASE HARN PWR SW		U	JPL	MR 64		35			Ü		
İ	4900515	1	ĺ	9W5 CASE HARN CC&S		U	JP ∟	MR64		35	İ	1	0		i
$\Box$	4900516		1_	9W6 CASE H DATA ENCO	L	U	JPL	MR64		35			Ü		<u> </u>
	4900517			9W7 CASE 4 ATT CONT		U	JPL	MR64		35		1	()		
!	4900518		1	9W8 DALO HASN WYEN	1	U	JPL	MR64		35		1	0		
Г	4900519		Ţ	9₩9 CASE # PWRGPYRO		U	JPL	MR64		35		1	Ų		Г
C	4900520		L	9 N.O INCONN SUBASSY	1	Ü	JPJU	MR64		35	0 -	63	J	4700501	
C	4900520		Γ	9w10 PYRO HARN MCPU		U	JPL	MR64		3.5	0.	63	J	4900539	
<u> </u>	4900521		1_	9k11 [NSIR HARN MCPU		U	JPL	MR64		35	01	63		4900539	<u> </u>
C	4900521	l		9W11 INTERCONNECT		U	JPL	MR64		35	0.1	63	_	4700501	
L_	4900522		1	9W12 CON' SYS MCPU		U	JPL	MR64		35	a i	63		4900539	
C	4900522			9w12 INTERCONNECT		U	JPL	MR64		35	0.	63	J	4700501	
L	4900523		1_	9w13 EARTH SENSOR		ن	JPL	MR64		35		1	0		
	4900524			9w14 MOTION SENS HAR	Г	U	JPL	MR64		35			Ü		
	4900525			9W20 SCI CASE HARN	<u>.</u>	U	JPL	MR64		35		1	- ( )		1
	4900526			9WZ1 SC1 SIG HARNESS		U	JPL	MR64		35			U		
	4900527			9W22 MAGNETOMER HARN	L	J	JPL	MR64		35			Ų		
ĺ	4900528		1	9W23 SCI POWER HARN		U	JPL	MR64		35			0		
_	4900529			9w24 SCI CASE HARN	L.	Ų.	JPL	MR64		35			Ç		
l	4900530		1	9w30 RADIOMIR CASE	ļ	U	JPL	MR64		35			C		
	4900531		1_	9W40 RING HARN PWR	L_	u	JPL	MR64		35					L
	4900532		1	RAD 9 GC SW-ELECT	l	U	JPL	MR64		35		1	0		Г
L_	4900533		L	RAD 9GC PREAMP-ELECT	L	U	JPL	MR64		35	L		0		L.
	4900534			RAD 9 GC DET-PREAMP		U	JPL	MR64		35		1	C		
L	4900535	l		RAD 35 GC SW-ELECT	L	U	JPL	MR64		35		: !	0 1		
[	4900535		İ	RAD 35GC PREAMP-ELEC	$I^-$	U	JPL	MR 64		35			0		1
L.	4900537	L	1.	RAD 35GC DET-PREAMP	$l_{-}$	U	JPL	MR64		35		: !	0		l
Ι	4900538			9W37 ATT CONT JET H	l <sup>-</sup>	U		MR64		35		1 1	C		1
10	14900540		!	SC *CABLING	l	U	JPi	MR 64		35			1 ر		ł

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.	DRAWING NO	015#	9 :	71746		CLARGE	75 800 7	8510	11 FOF			ATE	DRAWING CONTROL STATUS	NEXT ASSEMBLY	_
	DAXWING NO	<b>#</b> 0.	3 3		5		CORE	\$1.67AL	THEF BEE.	<b>8</b> 17.	mc.		STATUS	ASSEMBLY	i
	4900541			RAD TUN DIO AMP CABL	T			MR64		35			0		Ī
	4900546			CABLING FLOW CHART	L	U		MR64		35	<u> </u>	$\perp \perp$	0		1
	4901001		В	SHIELD . CHASS ASSY	i	Ū		MR64	l	35		162	- J	4901054	1
	4901053			BRKT CONNECTOR MT	L	U		MR64		35			ال	4500171	1
	4901053		П	BRKT CONNECTOR MT		U		MR64	ĺ	3.5	12	62	J	4460392	-
1	4901054		1	CHASSIS ATT CONT		U	JPL	MR64		35	12	62	J	 4901041	
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R	AWING	L1	s t	MADINED				ERICAL BY		CALIF	•	PAGE	41	4-12-63	3
Ĭ	DRAWING NO.	\$45W \$0.	# 5	TITLE	ŧ	3	Atamon Atamon	BALLEASE POR GAJOR ITEM	P 1 1 P	**	ATE 79.	DRAWING CONFROL STATUS		HEXT	Ţ
	3153106	_	A	SCREEN		U	JPL	MR64	38	111	62	J		3153116	Ť
	3153106		Α	SCREEN		U	JPL	MR64	38	11	62	J		3153153	1
	3153106		Α	SCREEN	- 1	U	JPL	MR64	38	11	62	J		3157762	T
_	3153106		Α	SCREEN		U	JPL	MR64	3.8	01	63			4700522	ı
	3153106		Α	SCREEN		U	JPL	MR64	38	11	62	J		4700556	Т
	3153109		Ш	DOME INJECTOR		U	JPL	MR64	38	07	62	J		3153155	1
- 1	3153110			CLOSURE	ĺ	U	JPL	MR64	38	07	62	J		3153155	T
	3153111			MO2 SPRAY PROP		Įυ	JPL	MR64	38	07	62	J		3153155	1
	3153112		l	FLANGE OX	-	U	JPL	MR64	38	07	62	J		3153155	T
+-	3153116		Щ	TUBE OX WELD	4	U	JPL	MR64		0.7	62			3153155	1
	3153117			TUBE OX	1 ,	U	JPL	MR64	38	07	62	J		3153116	1
	3153118		<u></u>	TUBE OX		U	JPL	MR64		07	62	<u> </u>		3153116	1
- 1 -	3153119			TUBE OX FLARED		U	JPL	MR64		07		J		3153118	Ì
	3153120		Н	NOZ OX SPRAY		U		MR64		0.7		J		3153118	ļ
	3153126			ROD SUPPORT		U	JPL	MR64	38	07	62	J		4700556	l
	153152		Н	INJECTOR ASSY	$\perp$	V		MR64		12		J		4700555	l
	3153153			INJECTOR WLDMT	j l	U	JPL	MR64	38		62	J		3153152	ı
	153154		-	INJECTOR COATED		Ų		MR64			62	J		3153153	1
	153156			INJ IST WELD PROP TUBE		U	JPL	MR64	38		62	J		3153154	ı
	3157119		Н	SPIDER	+	Ų.	JPL.	MR64	38	12	6.2	<u> </u>		3153155	Ļ
	157120			STUD		U	JPL	MR64	38		60	i,		4700332	ŀ
+-	157206		-	SUPPORT CTL WELD	-	-	JPL	MR64	38	09	60	<del></del>		4700332	╀
1 -	157207			FORWARD RING		U	I - · - I	MR64	38		62	J		4700558	l
-	157208			ROD SUPPORT	+	Ų	JPL	MR64	38	-	62	J		3157206	ļ
	157209			ANGLE RING		U		MR64	38	1 -	62	J		3157206	1
	157210	_		STRUCT CTL SUPPORT	+	Ų		MR64	38		62	<u> </u>		3157206	Ļ
	157211			STRUCT CIL SUPPORT		U		MR64 MR64	38	07	62	J		4700541	l
	157212			TUBE	+	U	JPL	MR64	38	-	<del></del>	<u> </u>		3157210	ł
1	157213	i		CLEVIS BLANK	ΙÌ	U		MR64			62	3		3157211	l
+	157214			TONGUE BLANK	+	U.	JPL	MR64	38	07	62			3157211	ł
	157215			PIN CLEVIS	11	. I	JPL	MR64	38	07	62	J		3157211	l
	157312			SCHEMATIC	+	2		MR64	38	01	+	J		4700541	ł
	157609			NEEDLE		й	JPL	MR64	38	10	62	۱ ۲		4700500 4700510	l
	157609			NEEDLE	-††	Ŭ		MR64	38	10		<del>- y</del>		4700510	t
	157609			NEEDLE		ŭ		MR64		10		ĭ l		4700529	
	157612		_	GASKET	+	ŭ	JPL	MR64	38	07		<del>-</del> - +		4700565	H
3	157619			PRIMER ASSY		ŭ	JPL	MR64	38		62	١		4700500	
3	157651			GAUGE VISUAL	17	Ū	JPL	MR64	38	10		- <del>-</del> j		4700527	r
3	157660		1	WASHER		ŭ	JPL	MR64	38	07		ĭ		4700513	ı

٠	DENOTES	CHANGE	10	PREVIOUS	LIST

JET PROPULSION LABORATORY			
CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF.			DATE LISTED
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÷	DRAWING NO.		d i		T	1 :	******		1 FOR	1150.	711	TATE	DRAWING	NEXT	Т
ĩ	1	NG.	4 :		5	2	Cont	EIGIAL	T-40 147.	91V.	#o.	74.	CONTROL STATUS	ASSEMBLY	1
C	3157663		1	PiùG	П	U	JPL	MR64		38	07	62	J	4700505	1
E	3157702			SHIM		U	JPL	MR64		38	11	62	J	4700527	1
C	3157709		İ	BLADDER CLAMP	1	U	JPL	MR64		38	11	62	J	4700508	7
<_	3157712		1	BAFFLE		U	JPL	MR64		38	11	62	J	4700510	1
_	3157713		T	MAST	Г	U	JPL	MR64		38	11	62	J	4700510	1
J	3157729			CARTRIDGE SHELL		U	JPL	MR64	!	38	12	62	ا د	4700531	ļ
5	3157730		A	BELLOWS ASSY	1	U	JPL	MR64		38	01	63	J	4700531	1
Ü	3157733		1	ACTUATOR ASSY		U	JPL	MR64		38	11	62	J	4700522	1
7	3157734		1	SPRING INSTALL	T	Ü	JPL	MR64		38	11	62	J	 4700522	
Ò	3157738		Α	BODY	l	U	JPL	MR64		38		63	ا ر	4700525	
C	3157739		A	TUBE OUTLET	1	TÜ.	JPL	MR64		38	01	63	<del>j</del>	 4700525	
2	3157740		1	FLANGE OUTLET	1	Ιü	JPL	MR64		38		62	J	4700525	
,	3157741		+	PROBE	T	U	JPL	MR64		38	11	62	j	 3157733	
,	3157742		1	PLUNGER		U	JPL	MR64		38		62	ا ر	3157733	- 1
-	3157746		1	DIAPHRAGM	$^{\dagger}$	Ū	JPL	MR64		38	11	62	j	 3157733	
)	3157747		1	GUIDES OUTSIDE		Ū	JPL	MR64		38	îi	62	j	3157734	
ì	3157748		+	GUIDES INSIDE	1	Ü	JPL	MR64			11	62	<u> </u>	 3157734	
5	3157749		1	SPRING BELLVILLE		15	JPL	MR64		38		62	ŭ	3157734	
_	3157750		+-:	SPRING	+-	Ū		MR64		38	ii	62	ن ز	 4700522	
	3157751		1 1	RING BACKUP		16	JPL	MR64		38		62	ا ر	3157733	ŀ
3	3.57752		1	SH:M	+-	ĺΰ	JPL	MR64		38	_	62	J -	 4700513	+
	3157761		1	SCREEN ASSY	1	ľu '		MR64		38		62	ŭ	4700503	Ì
-	3157762		1	SCREEN BRAZEMEN	<del>†</del> -	ij.	JPL	MR64		38		62	<u> </u>	3157761	+
	3157769		1	ains	ĺ	ľú.	JPL	MR64		38			ا ر	3157762	1
-	3157816		-	SHIELD THERMAL	+-	ΙŬ	JPL	MR64				61	- <u>j</u>	 4700500	+
)	3157820		1 1	RING SERVO MOUNT		lu l	JPL	MR64		38		62	- 1		İ
	3157821		Н	INSULATOR SHEET	1	ŭ	JPL	MR64				62		4700560	
	3157823		1 1	SCREW SET	1	U		MR64					J.	4700560	i
_	3157825			SHJELD THERMAL	╀	₩.		MR64				62		4700502	+
ì	4703315			BRACKET FUEL TANK	İ	lu l		MR64				62	,	4700500	1
	4700322			SPIDER WELDMENT	⊢	U	JPL	MR64				63	J	 4700541	+
	4700346		11	SHIELD THERMAL		u	JPL	MR64		38			-	4700513	ı
_	4700500		+-1	MCPU INSTALLATION	+-	ŭ.	JPL	MR64		38	UZ.	92	0	 4700500	+
	4700501			CABLE INSTALLATION	İ	M	JPL	MR64		38			0	4.7006.00	1
_	4700502			SERVO ASSY	$\vdash$	Ü	JPL	MR64		38			0	4700500	f
	4730503		Ιİ	FUEL SYSTEM INST	1	0	JPL	MR64		38			0	4700560	Į
	4700504		1 1	TUBE FUEL ASSY	-	¥.	JPL	MR64		38	0.1	1		 4700500	+
	4700505					1 - 1			į				ا	4700503	1
				FUEL SYSTEM ASSEMBLY	ł	Ų.	JPL.	MR64	+	38	01	03	<u> </u>	 4700503	+
	4700506			FUEL TANK ASSY	1	U		MR64		38			0	4700505	
<u>.</u> .	- 700507	PREVIO		FUEL TANK SHELL		<u> 10 I</u>	JPL	MR64		38	12	62	J	14700506	1

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				MARINER H							.ALIF.		PAGE	43	4-12-63	3
DR	AWING	LI	S T												Ļ	
	DRAWING NO.	BASH NO.	9 -	TITLE	÷	1173	CODE.	BALO.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BYSP, DIV.	PA.		DRAWING CONTROL STATUS		NEXT ASSEMBLY	3
5	4700508		1	H: ADDER ASSY		U	JPL	MR64		5.6			0		4700506	$\Box$
	4700509		1	BLADDER FUEL TANK		Ū	J₽L	MR54		38	14	62	j		4700508	
	4700510			MANIFOLD FUEL ASSY	Г	U	JPL	MR64		38	01	53	J		4700508	
يا ر	4700511		'	FUEL MANIFOLD BODY		U	JPL	MR64		38	$1\bar{z}$	62	j		4700510	
	4700512		1	PRESS TROCK		U	JPL	MR64		38		- [	0		4700510	
J,	4700513			GNZ SYSTEM ASSY		U	JPL	MR64		38			0		4700503	
U.	4700515		1-	TANK N2 ASSY		U	JPL	MR64				63	J		4700513	
ادا	4700515		1	TANK NITROGEN ASSY		U	JPL	MR64		3.8 €	01.	53	J		4700515	
5 1	4700516		1	TANK SHELL GN2		Ų	JPL	MR64		38	121	62	J		4700515	1
JJ.	4700517		-	MAN1FOLD BODY	L	Ų	JPL	MR64		38	12	62			4700515	
D.	4700518	1	1	VALVE BODY GN2		U	JPL	MR64		38	12	62	J		4700563	
l c l	4700519	!		VALVE ASSY FILL	1	Įų.	JPL	MR64		38	1		0		4700563	
	4700520		1-	0-500PS1 OXID CARIDG	П	U	JPL	MR64		38	01	63	J		4700527	
	4700521			CAP NUEDLE VALVE		u	JPL	MR64		38	0:	53	J		4700555	
	4700522		1	PHESSURE REG ASSY	Ī	U	JPL	MR64	Ī —	38	0.1	63	J		4700513	
	4700523			HOUSING PRESS REG	i	υ	JPL	MR64		38	0.1	63	J		4700522	
	470.524			CAP PRESSURE REG	Ī	Ū	JPL	MR64		38	01	63	J		4700522	
	4700525	1	1	BODY WELDMENT	l	U	JPL	MR 64		3.8	01	63	ز		4700522	1_
	4700527		1	START SYS INST		υ	JPL	MR64		38			0		4700513	1
	4700528	1	1	START SYSTEM ASSY	ļ	lυ	JPL	MR64		38	01	63	J		4700527	1_
ΙŪΤ	4700529	1	1-	CARTRIDUE OX ASSY	Г	U	JPL	MR64	1	38	12	62	J		4700528	
	4700531	Ì		CART UX WELD		J	JPL	MR64		38	1,2	64			4700529	
	4700532	1	1	VALVE OXIDIZER ASSY	Π	U	JPL	MR64		3.8	01	53	J		4700528	
	4700533	ł		F(-11N3		U	JPL	MR64		36	12	62	J		4700532	
U	4700534			VALVE BODY ASSY	Г	U	JPL	MR64	1			62	J		4700532	
l c l	4700535	1	1	NUT		Įυ	JPL	MR64		3.6	16	62	J		4700532	
c	4700536	1	1	VALVE ASSY FILL	Г	U	JPL	MR64		38	İ	i	0		4700532	
	4700537			VALVE BODY FILL		U	JPL	MR64	l	38	12	62	ل		4700519	
0	4700537		7	VALVE BODY FILL	Ι	U	JPL	MR64		38	12	62	j		4700536	
1	4700538	1		FLANGE INLET REG	l_	lu	JPL	MR64		38	01	63.			4700522	4
	4700540	1	1	ENGINE INSTL	1	Īυ	JPL	MR64		3.5			0		4700527	
	4730541		1	STRUCTURE ASSY	١.	ĺΰ	JPL	MR 64	L	8 د ا			0		4700540	4
	4700542	1	1	IBPACKET ELEC	Γ	ΙŪ	JPL	MR64		38	12	62	J		4700541	
	+700543		1	PLATE ASSY	L	Ιú	JPL	MR64	1	38			0		4700541	
	+700549		1	FUEL VALVE ASSEMBLY	[	U	JPL	MR64		38		62	J		4700505	
	4700550	1		FUEL VALVE BODY	ί	U	JPL	MR64	1	38	12	62	J		4700549	
	4700551		1	XOUCER TÉLEMETER	ľ	U	JOL	MR64	1	38		63	J		4700513	
0	4700552			ADARTOR	L	U	JPL	MR 64	1	38	14	62	J		4700527	
C	4700553	I	1 -	C_AMP	Γ	U	JPL	MR64		38	12	62	J		4700527	1

)	!→703554	I TENGINE ROCKET	1 10 UPL 1MR641	1381 1 0
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D	AWING		<b>S 1</b>	MARINER F	۲ (	NUM	RICAL	BY D	1 V			PAGE	44	4-12-6	3	
1	DRAWING NO.	- L			•	5	1400	BAUGE IT	100	IZIP.	04 ; 04	11	DRAWING CONTROL STATUS		HEXT ASSEMBLY	1
+	4700555		+-	FNGINE WELD	F	Ü		MR64	****	3.8	*0.	-			4700554	1
	4700556			NOZZLE WELDMENT	ı	Ĭŏ.	JPL	MR64			01	63	J 1		4700562	
	4700557		+	NOZZLE WEEDMENT	$\vdash$	Ιŭ		MR64			01		J		4700556	٠
	4700558			SUPPORT CONT ASSY		Ιŭ		MR64		38			ا ر		4700541	
_	4700558	-	+-	SUPPORT CONTROL	1	Ιŭ	JPL	MR64		38		63	<del></del>		4700543	•
•	4700559		1	TUBE INLET REGULATOR		Ιŭ		MR64	ļ		o:		J		4700522	
	4700560		+	CONTROL ASSY	╁	lŭ	JPL	MR64		38	· -	1	- 0		4700500	•
	4700561		ı	VANE	ı	Ιŭ		MR64		3.8	-		0		4700502	
	4700562	<del> </del>	+	SHELL WELDMENT	$\vdash$	Ü	JPL	MR64			01	63	- j		4700555	٠
	4700563	Ì	1	VALVE SN2 ASSY	ı	ľ	JPL	MR64		38	1		- 5 I		4700513	
	4700565	<del> </del>	+	CAP NEEDLE VALVE	╁	Ιŭ		MR64		38	01	63	J		4700519	
	4700565		1	CAP NEEDLE VALVE	ł	Ĭŭ	1	MR64		38	01		ار		4700529	
_	4700565	-	+-	CAP NEEDLE VALVE	╁	lΰ	JPL	MR64		38	01		J		4700536	٠
				PING PRESSURE REG	1	Ĭŭ		MR64		38	01		Ĭ.		4700522	
_,	4700566	<u> </u>	+-	SHELL	+-	ш	JPL	MR64		38		63			4700562	
	4700567	ł				U	1	MR64		38	01	1	ŭ		4700568	
	4700567	ļ	1	SHELL COATED	╄	10	JPL	MR64		38		63	- <del>-j</del> -		4700562	
1	4700568 4700568	1	i.	SHELL COATED	1	ľű		MR64		38	01		Ĵ		4700562	
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H. Mariner R 1964 Drawing List: GSE Numerical

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۰.	AWING		<b>C T</b>	CALIFORNIA INS MARINER R						ENA,	CALIF.		PAGE	1	4-12-6	3
		***	-	I		:	*1*845		t (71 H	1112		tast	DRAWING		HEXT	Ti
	DRAWING NO.	to.	55	TITLE	5	CLASS	C004	BERIAL		DIT.	MG.	11	CONTROL STATUS		ABBEMBLY	
D	4285			RADIOMTR 27A2 SCHEM		U	BEC	MR64	GSE	32			0			+
	105297			LAB SET		υ		+		34	09		J			
D	118570			SCHEMATIC SW SUBASSY		U	JPL	MR64	GSE	32	01		J		118840	- 1
D	118835		₽	SUBCHASSIS SW SUBASY	-	Ų.	JPL		GSE	32		62			118840	
0	118836		1	SUBCHASS CUR INJECT		U	JPL		GSE	32		62	١		118842	
0	118837 118838		+	COVER CURRENT INJECT	-	U.	JPL	MR64	GSE			62	<u> </u>		118842	
č	118839			BRACKET SW SUBASSY		ľ	JPL	MR64		32		62	j		118840	
J	118840		╁	SWITCH SUBASSY	-	ŭ	JPL	MR64	GSE	32	+	62	J	***	118842	
١	118841			PROBE ASSY		ľů	JPL	MR64		32		62	J		118842	- E
Ĵ	118842		+	CURRENT INJECTION		Ιŭ	JPL	MR64	GSE	32	+	62	Ĵ			Ť
ċ	118843		1	RETAINER	1	u	JPL	MR64	GSE	32	01	62	J		118842	1
J	119451		T	PLATES FEED THRU		Ū	JPL	MR64	GSE	35	1	$\sqcap$	0		i	T
D	119452			PLATE FEED THRU MCM	ı	ļυ	JPL	MR64	GSE	35	L		0			1
J	122696		Т	PANEL LO FLAT CELL		U	JPL	MR64	GSE	34			0		i	T
J	123130		丄	SDT NUMERIC READOUT	ļ	u	JPL	MR64	GSE	32			0			4
D	123131			NAMEPLATE MACHGENGRV	ı	U	JPL	MR64	GSE	32	į .	1 1	0			
D	123132		L	FRONT PANEL SDT	L	U	JPL	MR64		32	<u> </u>	1	. 0		1	4
D	123133			CONN WIRING DGM INPT	l	ļυ	JPL	MR64	GSE	32	Ì		0			
D	123134		L	PANEL MACHEENGRAVING	乚	U	JPL			32	<u> </u>		0		ļ	4
D	123136			FRONT PANEL SCHEM	l	U	JPL	MR64	GSE	32	1		0		1	ı
D	123137		┺	FRONT PANEL CONN WIR	ļ	U	JPL	MR64		32	<del> </del>	-	0		<del> </del>	+
Ď	123161		1	SDT INPUT/OUTPUT	l	U	JPL			32			0		1	-
<u>5</u>	123162		+	INSULATION STRIP	$\vdash$	U	JPL	+		32	-		0		+	+
D	123163	1	1		1	Ľ	JPL	MR64		32	1	: 1	ő			
౼	123165	-	+-	CHASSIS SUB ASSY CLOCK RELAY	⊢	Ü	JPL			32	<del> </del>	<del>  </del>	0		+	+
0	123167	1	1	PANEL SIDE	1	ľ	JPL	MR64		32	1	!	0			
0	123169	<b></b>	+	PANEL SIDE	H	U	JPL	MR64		32	†	1	0		<del> </del>	†
j	123773		1	HOT BOX IR RAD FIXT		li	JPL			32	1	1	0			
Ĵ	123774	<b>—</b>	+	LAYOUT FIXTURE RAD	T	ŭ	JPL	+		132	†		ŏ		1	†
Ď	123775	1		BLK BCDY CONE IR RAD	-	ŭ	JPL	1		32			ō			
J	3261002		C	HANDLING FIXTURE	T	U	JPL	MR64	GSE	38	10	61	J		1	1
D	8200000	l	В	TEST FIXTURE ASY		U	JPL.	MR64	GSE	34	11	62	ال			
D	8200000		M	BHOUSING LAMP		υ	JPL	MR64	GSE	34	11	62	Ĵ			T
ċ	8200001	l	A	LENS HOUSING ASY	1	Ιū	JPL			34	102		Ū.			-

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## JET PROPULSION LABORATORY CALIFORNIA INSTITUTE OF TECHNOLOGY, PASADENA, CALIF. MARINER R 64 GSE NUMERICAL

DATE LISTED PAGE 2 4-12-63

	DRAWING NO.	DATH PG.	15	TITLE	1	CLASS	700E		46 708 1 1718 They 469.	8117. 821	84,5 841	7.	DRAWING CONTROL STATUS		HEXT ASSEMBLY
1	8200002		Α	BARREL LONG RANGE		U	JPL	MR64	G5E	34	02	62	J		
١	8200003		A	LENS LONG RANGE	l_	U	JPL	MR64	GSE	34		62	J		
П	8200004		Α	DIFFUSION LENS	Т	Ū	JPL	MR64	GSE	34		62	J		
1	8200006		Α	APERTURE	l_	U	JPL		G5E	34		62	J		
П	8200008		В	SUPPORT FIXTURE	Г	Ū	JPL	MR64	GSE	34	11	62	J		1
	8200009			SEAL LIGHT FIXTURE		U	JPL	MR64	GSE	34		62	J		
	8500010		5	SEAL LIGHT LAMP	Г	Ū	JPL	MR64	GSE	34		62	J		I
١	8200020		A	PANEL		U	JPL	MR64	GSE	35	01	63	J		8200502
П	8200022		A	PLATE FUNCTION		Ū	JPL	MR64	GSE	35		63			8200502
.	8200023		Α	PLATE FUNCTION	1	U	JPL	MR64	GSE	35	01	63	J		8200502
Г	8200024	-	A	PLATE FUNCTION	Τ	U	JPL	MR64	GSE	35	0.2	62	J		8200518
	8200025		Α	PLATE FUNCTION		U	JPL	MR64		35		63	J		8200502
_	8200026		A	PLATE FUNCTION		U	JPL	MR64	GSE	35	01	63	J		8200502
	8200028		Α	BRACKET		U	JPL		GSE	35		63	J		8200502
	8200031		A	SUPPORT		U	JPL	MR64	GSE	35	1 · · i	63	J		8200502
	8200032		Α	RETAINER		U	JPL	MR64	USE	35	0.	63	J		8200502
П	8200033		A	SUPPORT SWITCH	Т	U		MR64	G\$E	35		6.3	J		8200502
	8200034		Α	RESISTOR ASSEMBLY	1	U		MR64		35		63	J		8200502
	8200037		A	JUNCTION PANEL	Τ	ΤŪ	JPL	MR64	GSE	35	01	53	J		8200518
ı	8200067		A	CONNECTOR INTERFACE		U	JPL	MR 64	GSE	35	01	63			8200518
Ξ	8200082		T	RETAINER LAMP	ì	U	JPL	MR64	GSE	34	02	62	J		
)	8200083		A	PLATE INSTRUMENT	Ι.	U	JPL	MR64	G5E	34	11	62	J		
Г	8200100		A	ANGLE SHELF SUPPORT	Т	Ū	JPL	MR64	GSE	35	01	63	J		8200518
	8200101		A	DRAWER SHELF		U	JPL	MR64	GSE	35	01	63	J		8200518
)	8200102		В	SUPPORT	Т	Ü	JPL	MR64	GSE	35	01	63	j		8200518
)	8200112		A	PCA RESET MONITOR		U	JPL	MR64	GSE	35		63	J		8200518
Ţ	8200197		1	PAD SHIPPING CASE	Т	U	JPL	MR64	GSE	34	09	62	J		8200199
1	8200198			COVER SHIPPING CASE		U	JPL	MR64	GSE	34	09	62	J		8200199
Г	8200199		Т	SHIPPING CASE A/C		Ų	JPL	MR64	GSE	34		62	J	1	
}	8200209	Ĺ	Α	BOOSTER NITROGEN	L	U	JPL	MR64		34		62	J		
,	8200215	ĺ	Г	TOOL TUBE CUTTER ASY	Г	U	JPL	MR64	GSE	34		62	J		8200215
į	8200216	L	1_	KIT TUBE CUTTER ASY	$\perp$	U	JPL	MR64	GSE	34	29_	62	J		
,	8200426			MONITOR PAL SCHEM	1	U	JPL	MR64	GSE	34	1		O .		
)	8200427			HINGE FOLLOW-UP	┖	U	JPL	MR64	GSE	34	ļ		0		
	8200428		T	METER BUFFER SCHEM	[	U	JPL	MR64	GSE	34	1		0	1	1
)	8200429			COMMAND PNL SCHEM	1_	U	JPL	MR64	GSE	34	1		0		
5	3200430		T	SENSOR PNL SCHEMATIC		U	JPL	MR64	GSE	34			0		1
-	8200431			JUNCTION BOX ELEC		U	JPL	MR64	65E	34	L		<u> </u>		
)	8200432		T	ACTUATOR DRAWR SCHEM		U	JPL	MR64	GSE	34	ĺ		0		- 1
_	8200433			SCHEM PLUS 28VDC	1	lυ	JPL	MR64	GSE	34	1	: 1	0	1	

D F	RAWING	; L1	<b>S</b> 1	CALIFORNIA IN:	STIT	UTE	OF TEC		r, PASAD				PAGE	3	4-12-63	
2	DRAWING NO.	9466	1:	TITLE	٠	ī	******		15E FOR 9 17EH	2017.			DRAWING CONTROL		MEXT	T :
-		L		Ĺ	٠	8	6004	BERIAL	THES 510.	Brv.	90.		STATUS		ASSEMBLY	1
	8200500	ĺ		MOCK UP FORM A/C PIP	1	Įυ		MR64		38		62	J	_		Г
	8200501			WIRING DIAGRAM	L			MR64		35	01	63	J		8200502	
	8200502	l	ı	PYROTECHNIC MON A	Γ	U	JPL	MR64	GSE	35	01	63	J		8200518	Г
j	8200503			PYROTECHNIC MON B		U	JPL	MR64	GSE	35	01	63	ا ر ا		8200518	ĺ
J	8200504		Г	CHASSIS		Ü	JPL	MR64				63	J		8200502	Г
	8200514		1	CIRCUIT BD 1 ASSY		U	JPL	MR64	GSE	35	01	63	J		8200502	ĺ
Л	8200516		Т	CIRCUIT BOARD ASSY	1	U	JPL	MR64		35		63	J		8200502	г
A	8200516	PL		COMPONENT PARTS LIST		lu	JPL	MR64				63	Ū		8200516	ĺ
7	8200518		T	PYRO MONITOR CONSOLE	Г	Ū	JPL	MR64		35	<u> </u>		ō		1-200-20	г
J	8200519			PRINTED CIRCUITRY	l	ĺΰ	JPL	MR64	GSE	35		Į	ŏ		8200516	
2	8200520			SCHEMATIC DIAGRAM	Γ	υ	JAL	MR64	GSE	35	01	63	J		8200516	Г
٥Ι	8500246		I	FRONT PLATE ISOLATN	l	lυ	JPL	MR64	GSE	32		! -	6 1			Ĺ

D 8200520
D 8500246
J 8700005
J 8700031
J 8700043
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A 8800227
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J 8800228
D 8800229
D 8800229 32 | 38 | 11 | 61 | 34 | 10 | 61 | 34 | 02 | 62 | 34 | 05 | 62 | 34 | 06 | 62 | 34 | 06 | 62 | 38 | 08 | 62 | 38 | 08 | 62 | U JPL MR64 GSE U JPL MR64 GSE U JPL MR64 GSE U JPL MR64 GSE U JPL MR64 GSE C FIXTURE HANDLE MCPU FUEL TILL ASSY
A TEST FIXTURE REGULTR 3261002 TEST FIXTURE REGULTR
FUEL TANK LEAK TEST
TEST FLANGE
WRENCH ASSY
DIAPARAGM LEAK TEST
CORE PATTERN CURING
BLADDER TEST MANIFLD
MANDLING FIXTURE
CB1 RELAY DRIVER
ANALOGGIR VOLT SW
ACTRVS UNIT SCHEM
FRONT PANEL ASSY
FRONT PANEL MACH
REAR PANEL ACTRVS
DECK ACTRVS
SIDE PANEL ANALOG U JPL MR64 GSE
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U JPL MR64 GSE 38 38 38 38 32 01 63 32 8800207 ٥ 8800223 32 0 8800224 8800226 8800224 32 a 8800224 SIDE PANEL ANALOG CB1 ASSY AGTRYS UNIT TB1 CB1 AGTRYS POWER PANEL ASSY D 8800230 D 8800231 32 32 0 8800224 0 D 8800232 32 32 32 32 32 32 32 32 8800231 8800222 ō

D 8800236 D 8800236 D 8800237 D 8800239 B 8800239 J 8800240 J 8800241 J 8800242 D 8800242 CB1 ASSY

PANEL ASSY SCOPE
PANEL SCOPE PATCH
SPACER SCOPE PATCH
WIRE LIST ISOLAT BOX

ISOLATION BOX SCHEM
CB1 ISOLATION BOX

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				CALIFORNIA IN	STIT	UTE	OF TE		Y, PASAD						DATE LISTE	
1	RAWING	LI	S T	, MARINER I	٠,	54	GSE	NUMER	RICAL				PAGE	4	4-12-6	3
Ē	DRAWING NO.	849H 80.	1 1	TITLE	5	į	*****	PELE RAJO BEDIAL	15E FOR 9 17EH 1 1884 110.	8650.	***	148 E 17 E	DRAWING CONTROL STATUS		MEXT	
7	8800243		Т	CBI PC	Т	U	JPL	MR64	GSE	32	†	T	0			-
)	8800244			CB2 ISOLATION BOX		U	JPL	MR64	G5E	32			0		8800240	
١	8800244	PL		CB2 ISOLATION BOX	Π	Ü	JPL	MR64	GSE	32		i	0		8800244	
	8800245			TB2 CB2 ISOLATION BX	l	U	JPL	MR64	GSE	32	1	1	0		8800244	
	8800246		Т	PLATE FRONT ISOLATN		Ü	JPL	MR64	GSE	32		1	0		8800240	•
	8800247		1	PLATE REAR ISOLATION	1	U	JPL	MR64	GSE	32		ļ	0		8800240	
7	8800248		1	PLATE LEFT SIDE MACH	Т	U	JPL	MR64	GSE	32	_		0		8800240	
)	8800249			PLATE RIGHT SIDE	l	υ	JPL	MR64	GSE	32		1	0		8800240	
7	8800250		T	TOP ISOLATION BOX	T	U	JPL	MR64	GSE	32	_	-	0		8800240	
)	8800251			BOTTOM ISOLATION BOX	1	ū	JPL	MR64	GSE	32	I		ō		8800240	
5	8800254	-	1	MACHGENGRAVING PWR	t	ŭ	JPL	MR64	GSE	32	<del>                                     </del>	!	<del></del>		800255	
-	8800255		1	BRACKET	f	ľu	jPL	MR64	GSE	32			ŏ		8800236	
	8800256		1-	WIRING POWER PANEL	┪	ŭ	JPL	MR64	GSE	32		-	o l		8800222	
	8800257		1	BRACKET LIGHT HOLDER	1	Ü	JPL	MR64	GSE	32		i			8800258	
	8800258		+	INDICATOR LIGHT ASSY	$\vdash$	Ü	JPL	MR64	GSE	32	<del> </del>	1	-		0000238	
	8800260		1	PC INDICATOR LIGHT		Ü	JPL	MR64	GSE	32	1				8000050	
	8800261		⊢	CB1 ASSY RELAY	⊢	Ü	JPL	MR64			1			_	8800259	
-	8800261	D.	Ι,	CB1 ASSY RELAY DRIVE			JAF		GSE		01		7		8800264	
	8800262	F L	-		<del> </del> _	U		MR64	GSE			63	Ų,		8800261	
			i i		l	Ū	JPE	MR64	GSE		,	63	3		8800261	
	8800263		₽	CB1 PC RELAY DRIVE	ļ	U	JPL	MR64	GSE		01	63	1		8800261	
	8800266		1	CB1 TELETYPE CONVERS	1	ĮΨ	JPL	MR64	GSE	32	l		0		8800265	
	8800267		1	CB1 PC TELETYP CONV	乚	U	JPL		GŞE	32			0		8800266	
	8800269		1 .	CLOCK DISPLAY UNIT	ı	U	JPL	MR64	GSE	32			0		8800222	
	8800270			FRONT PANEL CLOCK	L	U	JPL	MR64	GSE	32		<u> </u>	0		8800269	
	8800271			CLOCK DISPLAY WIRING	ĺ	U	JPL	MR64	GSE	32	Г	i :	0		8800269	
	8800272		ΙI	PANEL MACHGENGRAVING		U	JPL	MR64	GSE	32			0 ]		8800270	
	8800273			REAR PANEL CLOCK	Г	C	JPL	MR64	GSE	32			0		8800269	
J	8800278		ΙI	MAGNETOMETER ASSY		U	JPL	MR64	GSE	32	ı	1 1	0		8800223	
Т	8800279		П	M&SP SCHEMATIC	Г	J	JPL	MR64	GSE	32			0		8800270	
)	8800280		ΙI	FRONT PANEL ASY		ū	JPL	MR64	GSE	32	l		0		8800280	
J	8800281		П	FRONT PANEL MACH	Π	Ü	JPL		GSE	32	<u> </u>		0		8800278	
۱ د	8800283		H	REAR PANEL MESPM		Ū	JPL		GSE	32	l	}	ō		8800278	
5	8800284		П	CB1 M&SPM		Ū	JPL	MR64	GSE	32			ō		8800284	
	8800285			TB1 M&SPM	ı	ŭ	JPL	MR64	GSE	32	l	! I	o I		8800278	
	8800287	_	Н	MOUNTING BRKT CONN		Ü	JPL	MR64	GSE	32	<del>                                     </del>	$\vdash$	o l		1-000270	
	8800288			CHASS MAGNETOMETER	ı	ŭ		MR64		32	l	, 1	ŏ		1	
	8800291			CARD FILE ASSY	$\vdash$	٥	JPL	MR64	GSE	32	$\vdash$	$\vdash$	0		8800278	
	8800292			CABLE DIAGRAM	l	u		MR64		32	l		6		10000218	
	8800311			CBINDICATOR LIGHT	┝	_				34	<del></del>	!			2000250	
ا رُ						U	JPL	MR64			l		0		8800258	
	8800312			DAS INPUTGPWR SW	L.,	Ų	JPL	MR64	GSE	32	L		0		8800221	

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				CALIFORNIA IN: MARINER =						ENA,	CALIF.		PAGE	5	4-12-63	}
-	DRAWING NO.		1:	TITLE	1	3	******		est Jos	***		tari	DRAWING CONTROL		NEXT ARREMALY	•
•		NO.	2.2		15	_	C094	LEDIAL	1412 511.	BIV.	we.	78	CONTROL STATUS		***************************************	8
J	8800313		1	ELECTROMETER LO PNL	ı	Įυ	JPL.	MF 64	GSE	3.2	i		9			i
J	8800314		-	GSE SCHEDULE	╄	ĮΨ	JFL	MR64	GSE	32	<b>↓</b>		<u>,</u>		<del></del>	⊢
Ü	8800315			PANEL SIDE	İ	U	JFL	MR64	GSE	3.2		1	5			
Ð,	4900310	L.	1	CHASS RELAY CLOCK	╄	U	191		GSE	32	1	ļ.,	0		0000110	┼-
C	8900633		1	CAB'E ASSY 3W412	1	Ų	JEL	MH 64	GSÊ	3.5	-	63	ا ا		8900469	
(	8900634		1	CABLE ASSY 3W413	1	Ų	JPL	MR64	55 F	3.5		63			8900469	╀
C	8900635	i .		CABLE ASSY 3W414	1	ΤÜ	JEF	MR 64	SSE	35	0.2	€3	3 1		8900469	
C	8900636			CABLE ASSY 3W415	1_	U	JPL	MR 64	SSF		02	6.3	ال		8900469	╄
В	8900537			CABLE ASSY 3W416		U	JPL	MR54	SSE	35	02	63	ا نـ		8900469	İ
С	8900638		1	CABLE ASSY 3W-17	ļ	U	JPL	MR64	65£	35	104	53			8900469	┺
Э	8900639		Г	CABLE ASS" 2W86		U	JOL	PR64	GSE	35	0.2	63	J		8900469	1
ō	8900640	1	1	CABLE ASSY 5W86	İ	U	350	MR64	ĢS£	3.5	02	53	ا ن		8900469	1
C	3900641		П	CABLE AS: 1 SW42	1	U	JPL	MR64	GSE	35	38	53	J		8900469	1
1)	8900702		1	CABLE 2W322		lu.	JOL	MR64	GSE	3.5			0		8900701	
7	8900703			CABLE 2W324	Т	U	JP L	4R64	ĜŚE	35	Τ-		U		8900701	Г
Ď	8900455	i	A	CONSDITE CABLE #4		lυ	JPL	MR64	GSE	35	101	63	J		8200518	1
Ū	8900+56	<del> </del>	A	CON.OLE CAB. E #1	+	10	JP1.	MR 64	GSE	135	01	63	7		8200518	Т
ō	3900-57		A	CONSCLE CABLE #3	1	Ιū	JPL	MR64	GSE	35	10.	163	J		8200518	į
Ď	8900458		4	CONSOLE CABLE #8	✝	ΙŪ	JEL	M964	GSE	35	01	63	7		8200518	T
5	8900459		B	CONSOLE CABLE #2	1	l.	ے در ا	MR 64		35	oi	63	J I		8200518	1
ź	8900460	1	TA	CONSOLE LABLE #7	$^{+}$	Ιŭ	JPL	MR64	Ģ3€	135	0.	63	j		8200518	Т
	8900451	l	ė	CONSOLE CABLE #5	İ	lii	JPL	MR64		35		63	J l		8200518	1
È	8900462	<del> </del> -	Ta	CONSOLE CABLE #6	+	lü	JPL	MR64	GSE	35		63	<del>-                                    </del>		8200518	1
Ì	8900463	1	A		1	Ιŭ	JPL	MR64		35		63	J 1		8200518	1
Ť		<del>                                     </del>	+-	PWR JUNCT BOX 4A3MR	+-	Ιŭ	JPL	MR64	GSE	35	0.2	63	J		1-200-	t
_		1	1	CONSOLE CABLE #11	1	Ιŭ	JPL	MR64	1 -	35		63	, ,		8200518	
Č			╁	CONSOLE CABLE #10	+-	Ü	JPL	MR64	GSE	35		63	J		8200518	+
۲.	8901542				1	ľ	JPL	MR64		31	10.1	100	0		0200310	
÷	9132344	<del> </del> -	+	COLD BOX-ELECTRONIC	╁	LU.	JPL	MR64	_		0.8	+	<del>- 2</del>		<del>                                     </del>	+
J		i i		1	1	1 -	4		1	37		61	, ,		1	
<u>U</u>	9132874		1	BATTRY TEMP CONT BOX		U	JP L	MR64	162E	121	110	∔B.∔.	_			T
_			-													I
J	8200161	T	Т	SYSTEMS ASSY	Т	U	STL	MR64	GSE	34			0			1
J	8200162	!	В	PC#8	í	Įυ	STL	MR64	GSE	34	1.	1	0		8200189	
D			1	SCHEMATIC		U	STL	MR64	GSE	34	T	Ī	0		8200168	Τ
Ü		1		SCHEMATIC DIAG	1	Ιυ	STL	MR64	GSE	34		1	0		8200168	1
Ĵ		†	T5	CB #1 TYPE A BUFFER	T	Ū			GSE	34	T	T	0		8200161	T
J		1	1	CB#1 TYPE A BUFFER	1	ΙŪ				134	1	1			8200322	

J	820	0168			CB#1
* DI	NOTES	CHANGE 1	-	us.	LIST

_	AWING			JET PRO CALIFORNIA INS MARINER R	TIT			HNOLOGY	r, PASAD		ALIF.		PAGE	6	4-12-63	
<u>к</u>	DRAWING NO.	L I	3 1	TITLE	<b>*</b>	5	76 mbes	8410	ASC 704	169P.	9.1	11	DRAWING CONTROL STATUS		NEXT	Ī
Н	8200168	Pi.		CBI TYPE A BOFFER	Ë	Ü	STL	MR64	GSE.	134	¥0.		0		8200168	+
`	8200169			PC 31 TYPE A BUFFER	ļ	ŭ	STL	MR64	GSE	34			0		8200168	ŀ
	8200170		+	SCHEMATIC	+	u	STL	MR64	GSE	34	<del>  -</del>		0		8200171	1
	8200171		В	CB 32 TYPE INVERTER	١.	Ιŭ	STL	MR64	GSE	34	0.2	63	c		8200161	ı
Η	8200171	וס	10	CB#2 TYPE A INVERTER	+-	III	STL	MR64	GSE	34	Ť	-	0		8200171	1
ì	8200172			PC 32	1	Ιŭ	STL	MR64	GSE	34			0		8200171	١
,	8200172		╁	SCHEMATIC	╁	ŧũ	STL	MR64	GSE	134	1-	- 1	0		8200161	†
	8200173			SCHEMATIC	ı	Ιŭ	STL	MR64	GSE	34	İ		0		8200174	ı
	8200174		-	CH 33 TYPE A & GATE	⊢	ŧΰ	STL	MR64	GSE	34	0.2	63	-		8200171	1
	8200174		В	CB#3 TYPE A & GATE	ı	ľ	STL	MR64	1	134	-	1	0		8200322	1
-	8200174	D+	+0	CB33 TYPE A & GATE	┼~	Ιŭ	STL	MR64	GSE	34	-	!	ō		8200174	
	8200175	-	1	PC 33	ı	ľ	STL	MR64	1	34	02	63	ċl		8200174	.
-	8200176		+~	SCHEMATIC	╁	ŧΰ	SIL	MR64		34	1-	+	0		8200177	1
	8200177		ì	CB#4 CLEAR COMMAND		lŭ.	STL	MR64	GSE	134		1	o l		8200322	.
_		ļ., .	↓_	CB#4 CLEAR COMMAND	+-	lü	312	MR64	GSE	34	┼	+ 1	<del>- 6 - 1</del>		8200177	
	8200177	P L	1	IPC#4	ł	ľű	STL	MR 64	GSE	34			o l		8200177	
	8200178	<u> </u>	1	l -	ļ	Ü	STL	MR 64	GSE	34	<del> </del>				8200180	
,	8200179	1		SCHEMATIC	1	Ιŭ	STL	1	GSE	34	100	63	č		8200174	
	3200180	<u></u>	8	CB35 TYPE A ONE SHOT	1-		STL		GSE	134	102	103	<del>- 5 - 1</del>		8200180	
	8200180	PL		CB35 TYPE A ONE SHOT	ı	U	-	1		34	1	1 1	ŏ		8200180	
L	8200181	ļ	1	PC35	+-	U	STL	MR64	GSE	34	+	<del>!  </del>	0 1		8200183	
)	8200182			SCHEMATIC	1	U	STL	MR64		34	-	1 1	6		8200322	
_	8200183	<u> </u>	B	CB#6 CURRENT GEN	+-		STL			34	+	1	ŏ		8200183	
١	8200183	PL	1.	CB#6 CURRENT GEN	1	U	STL	MR64		34		1	ŏ		8200183	
,	8200184		IA.	PC#6	+	U				34	+	$\vdash$ $\dashv$	-		8200186	
5	8200185	1		SCHEMATIC	1	U	STL			34	0.2	62	č		8200174	
J	8200186		C	CB37 TYPE A FLIP FLP	1	Ų	STL			34	102	63	<del>- 5  </del>		8200186	
τ	8200186	PL	l	CB#7 TYPE A		U		1		1	1		ă l		8200186	
١		PL	$\perp$	CB#7 TYPE A FLIP	┸	Įυ			_	34		+	<del></del>		8200186	
J	8200187		İ	PC37	1	Ţΰ	1		GS&	3	1	i	0		8200189	
)	8200188			SCHEMATIC	4	Ų				34	+	+				
ĵ	8200189	l	В		1	Ţυ	1 -			34			0		8200322	
١	8200189	PL	L	CB#8 INTERFACE	1	U		<del></del>		134	+	<u> </u>	0		8200189	
)	8200217	1	T	SCHEMATIC #1	1	U			1	34	1	1	0		8200218	
į	8200218	1	A		$\perp$	U				34		i	0		8200295	
٦	8200218	Pι	T	CB#1 LOGIC		U			1-0-	34		į	0		8200218	
J	8200219	1		PC#1	$\perp$	U				34		-	0		8200218	
5	8200220	1	A	SCHEMATIC	1	Ų	1		1	34		ì	0		8200221	
J	8200221	1	Α	CB#2		Ų				34		-	0		8200295	
٩	8200221	PL	1	CB#2	Τ	Ţu				34		1	0		8200221	
i	8200222	1		PC#2	1	Ηu	IISTL	MR64	GSE	134	- 1	į	0 1		8200221	1

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Ť	DRAWING NO.	••••	ST	TITLE	1	į	*****	1 0000	41 FOI	HEIF.	947E	DRAWING CONTROL STATUS		WEXT ASSEMBLY	<del>-</del>
	DRAWING NO.	10.	3 =		5	8	C004	BIRIAL	THEF SEP.	Dev.	80. TE.				4
Ī	8200223	i	A	SCHEMATIC		U	STL	MR64	GSE	34		0		8200224	
	8200224	PL		C8#3		U	STL	MR64	G5E	34		0		8200224	
Ī	8200224	Ι	Т	CB#3		υ	STL	MR64	GSE	34	l i	0		8200295	
	8200225	1	1	PC#3		υ	STL	MR64	GSE_	34		0		8200224	
	8200226		A	SCHEMATIC		U	STL	MR64	GSE	34		0		8200227	
	8200227	l	A	CB#4	1	U	STL	MR64	GSE	34		0		8200295	
Ī	8200227	PL	t	CB#4		U	STL	MR64	GSE	34		0		8200227	Ī
	8200228	l	1	PC#4		lυ	STL	MR64	GSE	34		0		8200227	
	8200229		1	SCHEMATIC		υ	STL	MR64	GSE	34		0		8200230	
	8200230		A	CB#5		lυ	SIL	MR64	GSE	34		0		8200295	
i	8200230	PL	1	CB#5		U	STL	MR64	GSE	34		0		8200230	
	8200231	1	1	PC#5	ŀ	lυ	STL	MR64	GSE	34	l .i	0		8200230	
Ì	8200232	1	1	SCHEMATIC		lυ	STL	MR64	GSE	34		0		8200233	
	8200233		l <sub>A</sub>	CB#6	1	lυ	STL	MR64	GSE	34		0		8200295	
	820C233	PL	+	CB#6		Ιŭ	STL	MR64	GSE	34		0		8200233	•
	8200234	-		PC#6	- 1	Ιú	STL	MR64	GSE	34		l o		8200233	
	8200235	<del>                                     </del>	+	SCHEMATIC		Ιũ	STL	MR 54	GSE	34	<del></del>	1 0 1		8200236	•
	8200236		A	CB#7	- 1	Ιũ	STL	MR 64	GSE	34		0		8200295	
	8200236	PI	+~	CB#7		lŭ	STL	MR64	GSE	34		ō		8200236	
	8200237	l		PC#7	1	ľ	STL	MR64	GSE	34	!	ا م		8200236	,
	8200238		+-	SCHEMATIC		ŭ	STL	MR64	GSE	34		O I		8200239	
	8200239		A	CB#B		Ιŭ	STL	MR64	GSE	34	l i	ا م		8200295	
	8200239	PL.	+~	CB#8		ŭ	STL	MR64	GSE	34		Ö		8200239	
Ì	8200240	F L		PC#8		ŭ	STL	MR64	GSE	34		l ŏ		8200239	
	8200240	<del> </del>	╁	SCHEMATIC		뜮	STL	MR64	GSE	34	<del></del>	1 0		8200242	
	8200241		A	CB#9	- 1	Ü	STL	MR64		34	l i	l ŏ		8200295	
	8200242	01	+^	CB#9		ŭ	STL	MR64	GSE	34	$\vdash$	<del>  ŏ   </del>		8200242	
	8200243			PC#9	1	Ιŭ	STL	MR64		34		1 0		8200242	
	8200244	+	+	SCHEMATIC	-+	Ü	STL	MR64	GSE	34	<del>                                     </del>	Ö		8200245	
	8200245	1	l <sub>A</sub>	CB#10		U	STL	MR64	GSE	34	l i			8200295	
	8200246	<del>                                     </del>	+~	PC#10	+	Ü	STL	MR64	GSE	34	<del>                                     </del>	0		8200245	
		1	1.			U	STL	MR64	GSE	34	1 !			8200248	
	8200247	+		SCHEMATIC		Ü	STL	MR64	GSE	34	<del>                                     </del>	0		8200295	
	8200248	١	1.	CB#11		U	STL	MR64	GSE	34				8200248	
	8200248	IPL.	A	CB#11		_		*			<del>                                     </del>	<del></del>		8200248	
	8200249	l	١.	PC#11	Į.	U	STL	MR64	GSE	34				8200248	
_	8200250	—	ĮA.	SCHEMATIC				MR64		34	<del>                                     </del>	<del>                                     </del>		8200295	
	8200251	١	١.	CB#12		U	1	MR64	GSE					8200251	
	8200251	IPL.	1A	CB#12		ų	+	MR64	GSE	34	<del>                                     </del>	+			
	8200252	1	1	PC#12		U		MR64	GSE	34		0		8200251	
_	B 200253	Ь_	1	SCHEMATIC		U	STL	MR64	GSE	124		<u> </u>		JPL 0513 JVR	

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, r	DRAWING NO.	B+1#	11	TITLE	1	3	711047		ST 704	4112.		(A) 4	DRAWING		HEXT	
•		BO.	2.2		1.5		COOL	\$2.01BL	1×94 518.	per.	mė.	18.	CONTROL STATUS		ASSEMBLY	
,	8200254			CB#13		ļυ	STL	MR64	GSE	34		Г	0		8200295	
)	8200256		A	SCHEMATIC		U	STL	MR64	GSE	34	L	LЫ	0		8200257	
)	8200257		П	CB##14	Г	Ū	STL	MR64	GSE	34			0		8200295	ï
j	8200258		1	PC#14		U	STI.	MR64	GSE	34		1 1	0		8200257	
5	8200259		$\top$	SCHEMATIC	Т	U	STL	MR64	G5E	34		1 1	0		8200260	Ī
J	8200260			CB#15		U	STL	MR64	GSE	34			0		8200295	
σ	8200262		A	SCHEMATIC	1	U	STL	MR64	GSE	34		!	0		8200263	٦
j	8200263		A	CB#16		lυ	STL	MR64	GSE	34		! !	0		8200295	
A	8200263	PL	A	CB#16	Ι-	Ū	STL	MR 64	GSE	34	$\vdash$		0		8200263	-
j	8200264		Α	PC#16		ΙŪ	STL	MR64	GSE	34	İ	1	o l		8200263	
J	8200265		T	2.4 KC OSCILLATOR	<del> </del>	ΙŪ	STL	MR64	GSE	34	_	!	0		8200324	-
j	8200266			CABLE DIA CC&S LOGIC	ı	Ιŭ	STL	MR64	GSE	34		!	ŏ l		8200295	
5	8200267		+	FAN PLATE	Н	ΙŬ	STL	MR64	GSE	34	$\vdash$	! !	- <del>ö</del>		8200268	-
D	8200268			FAN PLATE		Ιŭ	STL		GSE	34	!	1 1	ŏ l		8200321	
	8200269			BRACKET	╁	Ŭ	STL	MR64	ĞSE	34		-	<del>- ŏ -  </del> -		8200314	-
	8200270		1	BRACKET		Ιŭ	STL	MR64	GSE	34	Ι.	:	o l		8200314	
5	8200271		ļ.,	GUSSET	┢	Ü	STL	MR64	GSE	34	├—	┤	<del></del>		8200314	-
_	8200271			CHANNEL BRACKET		lŭ.	STL		GSE	34			ŏ			
	8200274		-	TB#2	⊢			MR64			-	<u>i                                    </u>			8200314	-
			1		Į	U	STL	MR64	GSE	34		!	0		8200313	
<u>J</u>	8200275		-	REAR PANEL	١	ĮΨ	STL	MR64	GSE	34	$\vdash$	1	0		8200314	_
	8200276		A	SCHEMATIC		U	STL	MR64	GSE	34		!	0		8200277	
J	8200277		1	CB#9 DRIVER INFACE	L	Ų.	STL	MR64	GSE	34	L	1	0		8200174	
A,	8200277		H	CB#9 DRIVER INFACE	l	U	STL	MR64	GSE	34		i I	0		8200277	
J	8200278			PC #9	L.	U	STL	MR64	GSE	34	L		0		18200277	
)	8200279		[A]	SCHEMATIC	1	Ū	STL	MR 64	GSE	34		1	0		8200280	
ز	8200280		[A]	CB#10 INFACE		U	STL	MR64	GSE_	34			٥		8200174	
A	8200280	Pι	F	CB#10 INTERFACE	Π	U	STL	MR64	GSE	34			0		8200280	
J	8200281		A	PC #10	1_	U	STL	MR64	GSE	34		<u>L</u>	0		8200280	
D	8200282		П	SCHEMATIC	Γ	Ū	STL	MR64	GSE	34			0		8200283	7
J	8200283		A	CB#11 SYSTEM RELAY	1	U	STL	MR64	GSE	34		!	0		8200174	ì
J	8200284		П	PC#11		U	STL	MR64	GSE	34		!	0		8200283	1
J	8200285			FRONT PANEL MACH	1	υ	STL	MR64	GSE	34		;	0		8200368	
J	8200286		tcl	BLOCKHOUSE LOGIC		Ū	STL	MR64	GSE	34		1	0		8200322	4
J	8200287		1	FRONT PANEL MACH	l	Ū	STL	MR64	GSE	34		! I	o l		8200314	
5	3200288		+	SCHEMATIC DIAG	<del> </del>	Ū	STL	MR64	GSE	34		: - 1	ŏ		8200299	
5	8200289			HEAT SINK BRACKET		Ü	STL	MR64	GSE	34		: I	o l		8200299	
_	8200290		$\vdash$	FRONT PANEL WIRING	-	Ü	STL	MR64	GSE	34		<del>;  </del>	<del>-</del>		8200349	
	8200291			FRONT PANEL MACH		li.	STL	MR64	GSE	34			0			
			+,-	BLOCKHOUSE CHAS WIRE	$\vdash$	<u> </u>				34	$\vdash$	$\vdash$		-	8200349	4
<i>.</i>	8200292		^			Ų.	STL	MR64	GSE			i	0		8200322	ļ
1	8200293		1	BLOCKHOUSE CARD FILE		lυ.	STL	MR64	G5E	34		. 1	0		8200322	П

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ī	DRAWING NO.	DATH NO.	1 :	TITLE	9	CLASS	******		1764 1764	****	FATE	ORAWING CONTROL STATUS		NEXT ASSEMBLY	1
D	8200294	-	$\vdash$	BLOCKHOUSE FRONT PNL	+	Ü	STL	MR64	GSE	34		0		<del> </del>	+-
J	8200295		l	LOGIC ASSY		ľű	STL	MR 64	GSE	34		ő l		8200321	1
<del>-</del>	8200296	<del>                                     </del>	+-	FRONT PANEL MACH	+	ŭ	STL	MR54	GSE	34		ŏ		8200356	+-
,	8200297	l	l	REAR PANEL MACH		ŭ	STL	MR64	GSE	34	1 1 1	ŏ		8200321	
Ţ	8200298		-	MANUEL COMM BLOCK DG	t	ŭ	STL	MR54	GSE	34		0		8200161	+
j	8200298	l	lc	MANUAL COMMANDS DOM		Ιŭ	STL	MR64	GSE	34		ŏ 1		0200101	1
Ś	8200299		F	HEAT SINK ASSY GEN	+-	ťΰ	STL	MR64	GSE	34		- <del>5  -</del>		8200322	+
	8200301	l	lΔ	SYSTEMS CHASS WIRING		11	STL	MR64	GSE	34		5 1		8200161	
÷	8200302	<del></del>	5	SYSTEMS CARD FILE #1	╁	ŭ	STL	MR 64	GSE	34		-5-+		8200161	
Ó	8200303	l		CABLE ASY SYS LOGIC		ŭ	STL	MR64	GSE	34		ŏ		8200321	
<u>,</u>	8200304		1~	SCHEMATIC	+	H	STL	MR64	GSE	34		<del>-</del> 6 +-		8200305	╁
1	8200305		A	CB#12 TYPE A & GATE		u	STL	MR64	GSE	34		0			
<u>,</u>	8200306	-	₽	PC#12	+	ü	STL	MR64	GSE	34		- <del>0</del>		8200174	
	8200307	ŀ	l	ADAFTER BRACKET		l.	STL	MR64	SSE	34		5			
_	8200308		⊢	BLOCKHOUSE CHASS WIR	╁	11	STL	MR64	GSE	34		$-\frac{3}{5}$		8200322	+
	8200309	l	l <sub>A</sub>	FRONT PANEL WIRING		u	51L	MR 54	GSE	34		0		2200260	İ
_	3200310		1~	FRONT PANEL MACH	Ͱ	1.	STL	MR64	GSE	34		- 0		8200368	
	8200311	ł	ı	FRAME		ŭ	STL	MR54	GSE	34		ő		8200324	
_	8200313		⊢	CB#2	⊢	Ü	STL	MR64	GSE	34		0		8200314	
	8200314					Ľ				34		- 1			
-	8200321		-	CHASSIS ASSY GROUND SUPPORT CC&S	$\vdash$	14	STL	MR64	GSE	34		0		8200323	+
	8200322			BLOCKHOUSE ASSY	1	U	STL					- 1		100-0141	ı
_			-	BLOCKHOUSE PWR SUP	╁	1	STL	MR64	GSE	34		0		8200161	+
	8200323	1	l		1	U		MR64	GSE	34		- 1		8200371	
	8200324		١.	SYSTEMS POWER SUP	╄	U	STL	MR64	GSE	34		ن		8200321	
	8200325		A	SCHEMATIC	1	U	STL	MR64	GSE	34		0		8200326	
	8200326		Α	CB#13 TIMING & MIDCS	↓_	ŭ	STL	MR64	GSE	34		0		8200174	
	8200326	PL		CB#13 TIMING	1	U	STL	MR64	GSE	34		0		8200326	
_	8200327		-	PC#13	<b>├</b> -	U	STL	MR64	GSE	34		0		8200326	
	8200328		_	SCHEMATIC	1	U	STL	MR64	GSE	34		O		8200329	
	8200329		В.	CB#14 TIMING&MCPU#2	⊢	U	STL	MR64	GSE	34		_ &		8200174	
	8200329	PL	ĺ	CB#14 TIMING&MCPU #2	1	U	STL	MR64	GSE	34		0		8200329	
	8200330		-	PC#14	1-	ļu.	SIL	MR64	GSE	34		- 2		8200329	
	8200331			AGENA SEPARATION	1	U	STL	MR64	GSE	34		0		8200161	
	8200332		┡	SYSTEMS TIMING CONT	├-	V.	SIL	MR64	GSE	34				8200161	
	8200333			SYSTEMS CARD FILE #2	1	U	STL	MR64	GSE	34		0		8200161	
_	8200334	L		CABLE ASY VAC RACK	-	U	STL	MR64	GSE	34		3		18200321	
	8200335			CONSOLE CABLE ASSY	ŀ	U	STL	MR64	GSE	34		0		8200321	
	8200336	Ļ	Ь.	DIRECT ACCESS CBL #1	1	U	STL	MR64	GSE	34		0		8200321	
	8200337			DIRECT ACCESS CBL #2		ļΨ	STL	MR64	GSE	34		0		8200321	1
)	8200338	l		DIRECT ACCESS SIGNAL	1	ΙU	STL	MR64	GSE	34	i i I	0		8200343	1

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U STL MR64 GSE \*\*\*\* # E Ĭ DRAWING NO. # # Veamer 917. HEXT ASSEMBLY D 8200339 SCHEMATIC 34 34 8200340 8200340 CB#15 DIRECT ACCESS 8200343 8200340 A 8200340 PL CB#15 DIRECT ACCESS 8200341 U STL MR64 GSE
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FRONT PANEL ASSY
REAR PANEL ASSY
REAR PANEL MACH 8200355 34 0 8200322 J 8200356 J 8200357 0 J 8200358 J 8200358 J 8200358 8200295 34 0 8200295 U STL MR64 GSE U STL MR64 GSE U STL MR64 GSE U STL MR64 GSE U STL MR64 GSE U STL MR64 GSE U STL MR64 GSE 00 8200357 CHASSIS ASSY CHASSIS MACHINING 8200359 8200295 8200359 D 8200360 o J 8200361 J 8200362 D 8200363 PANEL SIDE CHASS MACHGENGRAVING 8200295 8200161 0 REAR PANEL ASSY 8200161 34 0 U STL MR64 D 8200364 U STL MR64 GSE
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SIDE PANEL
FRONT PANEL ASSY
POWER SUPPLY ASSY
SCHEMATIC 0 6200365 C 8200366 0 8200161 8200161 J 8200367 8200161 8200161 34 0 J 8200368 D 8200369 J 8200370 34 34 0 8200161 8200373 BLANK PANEL D 8200371 34 34 0 8200321 J 8200372 8200373 8200373 D CB#17 34 0 8200295 CB#17 O 8200373 BLOCKHOUSE CONFIG J 8200374

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J	8200375		L	BLOCKHOUSE WIRING	-	U	STL	MR64		34			0			1
_	ER387		-	SHIPPING CONTAINER	-	υ	zRO	MR64	GSE	38			0			+
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I. Mariner R 1964 Drawing List: GSE Numerical by Division

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-	DRAWING NO.	841H 20.	15	TITLE	1	1970	V4 = 900		SE FOR	agar.		1411 471	DRAWING CONTROL STATUS		HEXT ASSENBLY	Ī
J	9132344		╁	SHAKE FIXTURE		Ū	JPL	MR 64	GSE	31	# D.	71.	O		7776	1
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•	DRAWING NO.	HO.	15	TITLE	3	3	COSS	\$6 F134	7880 848.	Dev.		110	CONTROL STATUS		MEXT ASSEMBLY
Ď	4285			RADIOMTR 2742 SCHEM		Ū	BEC	MR64	GSE	32			0		
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_	118570		┡	SCHEMATIC SW SUBASSY	L.	U		MR64			01	+	J		118840
0	118835			SUBCHASSIS SW SUBASY		U		MR64	GSE	32		62	J		118840
5	118836		╀╌	SUBCHASS CUR INJECT	-	10	JPL	MR64	GSE	32	01	62	- J		118842
-	118838		l	GASKET CUR INJECTION		l'U	JPL	MR64	GSE	32		62	J.		118842
	118839		+-	BRACKET SW SUBASSY	-	Ü.	JPL	MR64	GSE	32	0i	62	<del></del>		118842
	118840		1	SWITCH SUBASSY		l'il	JPL	MR64		32	01	62	J		118840
П	118841			PROBE ASSY	-	2		MR 64	GSE	32	01	62	<del></del>		118842
١	118842		!	CURRENT INJECTION		i.i		MROA	GSE	32		62	ı,		1100-2
٦	118843			RETAINER		C	JPI.	MR 64	GSE	32	-×	52	- j		118842
	123130			SDT NUMERIC READOUT		U	JPL	MR 64	55E	32		-	0		1
1	123131			NAMEPLATE MACHGENGRY		C	JPL	MR54	GSE.	32			0		
Ц	123132		L	FRONT PANEL SDT		Ų	JOL	MR 64	GŞE	32			0		
١	123133		1	CONN WIRING DGM INPT		U			GSE	32	İ		0		
4	123134		Н	PANEL MACHEENGRAVING		ч.	151	MR54	GSE	32		$\rightarrow$			
	123136			FRONT PANEL SCHEM		U		MR64		32			0		ì
1	123161			FRONT PANEL CONN WIR	-	Ŭ		MR64	GSE	32			- 9		<del></del>
1	123162			DECK CLOCK RELAY		U		MR64	GSE	32.			0		1
7	123163	-	Н	INSULATION STRIP		_	JPL		GSE	32	-	$\vdash$	o		<b></b>
	123165			CHASSIS		U	JPL	MR 64	GSE	32			0		1 1
1	123167			SUB ASSY CLOCK RELAY		Ü		MR 64		32		$\vdash$			<del>   </del>
1	123168			PANEL SIDE		7	1		GSE	32			0		
7	123169			PANEL SIDE		ΰ		MR64		32			0		<del>                                     </del>
1	123773			HOL BOX IR RAD FIXT	]	اسّ		MR64	GSE	32			ă		
ſ	123774			LAYOUT FIXTURE RAD		U		MR64		32			ö		1
4	123775			BLK BODY CONF IR RAD		IJ,		MR64	GSE	32			ــــــــــــــــــــــــــــــــــــــ		<b>.</b>
	8500246			FRONT PLATE ISOLATN	Į	U		MR64	G\$E	32			0		
7	8800207	2		CB1 RELAY DRIVER	-	U			GSE.		Δ١	63			8800207
	8800224			ANALOGETH VOLT SW		U	JPL	MR64		32		- 1	0		8800223
	8800225			A&TRVS UNIT SCHEM		ч		MR64		32					8800224
	8800226	ı		FRONT PANEL ASSY	- 1	U		MR 64		32			0		8800224
•	8800228			FRONT PANEL MACH REAR PANEL AGTRVS	+	빞			GSE	32		-			8800226
	8800229			DECK AGTRVS	- [	U		MR64 MR64	GSE	32	1	- 1	0		8800224

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	DRAWINS NO.	uo.	35	TITLE	1	3	COLL	\$C BIAL	T#49 149.	Dry.	WO.	7.0	CONTROL STATUS		ABSEMBLY
5	8800230			SIDE PANEL ANALOG	Γ	Ū	JPL	MR54	G S E	32			0		8800224
)	8800231			CB1 ASSY AGTRVS UNIT	L	Ų.	JPL	MR 64	GSE	32			0		8800234
)	8800232		П	TB1 CB1 A&TRVS	Γ	Ü	JPL	MR64	GSE	32			Ü		8800231
)	8800236			POWER PANEL ASSY		U	JPL	MR64	GSE	32			0		8800222
7	8860237			PANEL ASSY SCOPE		U	JPL	MR64	GSE	32	ĺ	i	0		8800222
)	8800238		1	PANEL SCOPE PATCH	Ì	U	JPL	MR64	GSE	32	L		0		8800237
	8800239		1	SPACER SCOPE PATCH	П	Įυ			GSE	32			0		9800237
3	8800240		1	WIRE LIST ISOLAT BOX	1	U	JPL	MR64	6SE	32			0		8800240
ï	8800241		T	ISOLATION BOX SCHEM	Г	V	JPL	MR64	GSE	32			0		8800240
J	8800242			CB1 ISOLATION BOX	1_	U	JPL	MR 64	GSE	32			<u> </u>		8800240
Γ	8800242 F	٠	T	CB1 ASSY	I	U	JPL	MR64	GSE	32		1	0		8800242
,	8800243			CB1 PC	L	U	JPL		GSE	32			0		
,	8800244			CB2 ISOLATION BOX	Γ	U	JPL	MF 64	35E	32		1	0		8800240
	8800244 F	٦,	1	CB2 ISOLATION BOX		U	JPL	MR64	GSE	32	!		0		8900244
Г	8800245		1	TB2 CB2 ISOLATION BX	1	U	JPL	MR 64	SSE	32			0		8800244
	8800246		1	PLATE FRONT ISOLATN	ı	U	JPL	MR 64	GSE	32			0		8800240
	8800247		╅~~	PLATE REAR ISOLATION	T	U	JPL	MR64	GSE	32			0		8800240
)	8800248			PLATE LEFT SIDE MACH	1	Įυ	JPL	MR54	GSE	32			0		8800240
,	8800249		+	PLATE RIGHT SIDE	T	U	JPL	MR64	GSE	32	i –		C		8800240
)	8800250			TOP ISOLATION BOX	1	lu	JPL	MR64	SSE	32	_		0		8800240
	8800251			BOTTOM ISOLATION BOX	Т	U	JPL	MR64	GSE	32			0		8800240
	8800254		1	MACHEENGRAVING PWR	1	Ū	JPL	MR64	GSE	32		! ]	0		8800255
	8800255		+	BRACKET	1	Ü	JPL	MR64	GSE	32			0		8800236
			İ	WIRING POWER PANEL	1	lu	JPL	MR64	GSE	32			0		8800222
	8800257		1	BRACKET LIGHT HOLDER	T	W	JPL	MR64	GSE	32			0		8800258
	8800258			INDICATOR LIGHT ASSY		lu	JPL	MR64	GSE	32		! !	٥		
	8800260		+	PC INDICATOR LIGHT	+-	ŤŪ	JPL		USE.	32	1	!	0		8800259
	8800261		ļ	CB1 ASSY RELAY	1	ĺυ	JPI.	MR64		32	01	63	J		8800264
	8800261 F	Pi	+-	CB1 ASSY RELAY DRIVE	1	U	JPL	MR64	GSE	32	01	63	J		8800261
	8800262	-	ŀ	CB1 RELAT DR SCHEM	1	Ιŭ	JPL	MR64	GSE	32	01	63	J	1	8800261
<u>,</u>			+-	CB1 PC RELAY DRIVE	†	Ū	JPL	MR64	GSE	32	01	63	j		8800261
_	8800266		1	CB1 TELETYPE CONVERS	1	Ιŭ	JPL	MR64		132	1		0		8800265
	8800267		+-	CB1 PC TELETYP CONV	†-	U	JPL	MR64	SSE	132	†		0		8800266
	8800269			CLOCK DISPLAY UNIT	1	Ιŭ		MR 64		32			ō.		8800222
			+-	FRONT PANEL CLOCK	†-	Τŭ	JPL	MR 54		132	1	1	0		8800269
1	8820271		1	CLOCK DISPLAY WIRING	1	16	JPL	MR64		32	1		ō		8800269
, ;	8800272		+	PANEL MACHENGRAVING		1ü	JPL	MR64	GSE	132	<b>†</b>		0		8800270
	1 1		1	REAR PANEL CLOCK	1	Ιŭ	JPL	MR 64		32	1	1	ŏ		8600269
<u>_</u>	8800278		+	MAGNETOMETER ASSY	+	Τŭ	JPL	MR64		32	†				8800223
į	8800279		1	MESP SCHEMATIC	1	Ιŭ		MR64		32	i	;	ō	l	8800270

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	RAWING		_		Τ.		*****	111.14	11 /04	1112.	DELEASE DATE	DRAWING		NEXT	Ī
	DRAWING NO.	BO.	1 5	TITLE	1	į	C005	BEGIAL	**** ***	per.	BG, 78.	DRAWING CONTROL STATUS	1	ASSEMBLY	l
-	8800280		+-	FRONT PANEL ASY	1	U	JPL	MR64		32		0		8800280	T
	8800281		1	FRONT PANEL MACH		υ	JPL	MR64	G5E	32		0		8800278	1
	8800283	-	+	REAR PANEL M&SPM		U	JPL	MR64	GSE	32		0	I	8800278	ı
d	8800284			CB1 MGSPM	ļ	U		MR 64		32		. 0		8800284	
	8800285		1	TB1 M&SPM	T	U	JPL	MR64	GSE	32		0	i	8800278	
	8800287	ŀ		MOUNTING BRKT CONN	1	U	JPL.	MR64		32		0			1
_	8800288		t	CHASS MAGNETOMETER	Т	U	JPL	MR64	GSE	32		0	i	İ	ı
	8800291		1	CARD FILE ASSY	1	U	JPL	MR64	GSE_	32		0		8800278	1
	8800292		1	CABLE DIAGRAM	Т	U	JPL	MR64	GSE	32		0			
	8800312		1	DAS INPUTGPWR SW		U	JPL	MR64	GSE	32		0		8800221	4
	8800313			ELECTROMETER LO PNL		U	JPL	MR64		3.2		С			
	8800314	ļ	1	GSE SCHEDULE		l u	JPL	MR64	GSE	3.2		0			4
	8800315		T	PANEL SIDE	Т	U	JPL	MR54	GSE	32		0			ĺ
	8800316	İ	1	CHASS RELAY CLOCK		ļυ	JPL	MR54	G\$E	32		<u> </u>			
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2	RAWING	L1	51	MARTINER	70	•	336 1			7 1			PAGE	5	4-12-6	. 3
į	DRAWING NO.	BASH BO.	85	TITLE	1	3	COGE	BE HAL	7 17 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ACUP.	**	79.	DRAWING CONTROL STATUS		MEXT ASSEMBLY	
	105297		Γ	LAB SET	Т	U	JPL	MR64	GSE	34		62	J		<del>                                     </del>	-
<u></u>	122696		Ļ.	PANEL LO FLAT CELL	┶	Ų	JPL	MR64	GSE	34			. 0			
D	8200000			TEST FIXTURE ASY	1	U	JPL	MR64	GSE	34	11	62	J			•
	8200000			BHOUSING LAMP	_	U	JPL	MR64	GSE	34	11	62	J			
	8200001			LENS HOUSING ASY		U	JPL	MR64	GSE	34	02	62	J			•
C	8200002		A	BARREL LONG RANGE	1	U	JPL		GSE	34	02	62	ا ر			
	8200003			LENS LONG RANGE		U		MR64	GSE	34	02	62	J			•
	8200004			DIFFUSION LENS	L	U		MR64	GSE_	34	02	62	J		l	
	8200006			APERTURE		U		MR64	GSE	34	02	62	-j-			•
	8200008			SUPPORT FIXTURE	L	U		MR64	GSE	34	11	62	J		I	
	8200009		Α	SEAL LIGHT FIXTURE	1	Ü	JPL	MR 64	GSE	34	02	62	J			•
	8200010			SEAL LIGHT LAMP	L	U	JPL	MR64	GSE	34	11	62	Ĵ		ſ	
	8200082			RETAINER LAMP		U	JPL	MR64	GSE	34	02	62	<del>- j -  </del>			
	8200083		Α	PLATE INSTRUMENT		υi	JPL.	MR64	GSE	34	11	62	ا ر			
	8200197			PAD SHIPPING CASE	Т	U	JPL	MR64	GSE	34	09	62	<del></del>		8200199	٠
	8200198			COVER SHIPPING CASE	1	lυ	JPL	MR64			09	62	J		8200199	
	8200199			SHIPPING CASE A/C	-	ŭ		MR64	GSE		09	62	- <del>-</del>		9500133	•
	8200209		A	BOOSTER NITROGEN	l i	ľu			GSE		11:	62	7 1			
J,	8200215			TOOL TUBE CUTTER ASY		Ŭ			GSE		09	62	<del>- j -  -</del>		9300316	•
J١	8200216			KIT TUBE CUTTER ASY	1	ŭ			-		09		ĭ		8200215	
5	8200426			MONITOR PNL SCHEM	t	Ü		MR64		34	U.Z	84	<del>- 5</del>			•
М	8200427			HINGE FOLLOW-UP	Ιi	ŭ		MR64		34			0			
7	8200428			METER BUFFER SCHEM	Н	Ü		MR64		34	-	-+				4
	8200429			COMMAND PNL SCHEM		ŭ		MR64		34		1	0			
	8200430		1	SENSOR PNL SCHEMATIC	Н	ŭ		MR64		34	-	-				
:	8200431	i		JUNCTION BOX ELEC	1 1	ŭ	JPL	MR64	035	34			0			
	B2004321		_	ACTUATOR DRAWR SCHEM	╌	ŭ		MR64		34						
	8200433			SCHEM PLUS 28VDC	1 1	М		MR64		34		- 1	0	i		i
_	8700031			FUEL TILL ASSY	Н	ö						- +	0			
	8700034			TEST FIXTURE REGULTR	ı	- 1						61	i		3261002	
	8700041		-	FUEL TANK LEAK TEST	Н	Ÿ		MR64			02					
ŧ	8700042	j		TEST FLANGE	ΙI	- 1			1		05		J			I
_	8700042			WRENCH ASSY		빞		MR64				62				į
- 1	8800311	i		CB INDICATOR LIGHT				MR64			06	62	١			ļ
	0000311			CB TRUTCATOR LIGHT		Ÿ	JPL	MR64	USE	34		$\dashv$	-0-		8800258	
1	8200161			SVETENS ASSU												Ì
	8200162			SYSTEMS ASSY				MR64		34	ı		0			ſ
	OTER CHANGE TO			PC#8		<u>u i</u>	STLI	MR64	GSE I	34!	- 1		ا ہ	- (	8200189	i

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F	RAWING L	15	T MARINER	R64	+	GSE			BY	DIV		PAGE	6	4-12-6
-	DRAWING NO. 80.	ŧ	71716	1	3	72 H00	PEL DAL	1462 FB0 00 1769 THB# 851	9 E 91	N1	LEARS BAYE	DRAWING CONTROL STATUS		HEXT ABSENBLY
	8200167		SCHEMATIC	7	U	STL		GSE	34		+ 15	0		8200168
	8200167	4	SCHEMATIC DIAG		U	ISTL	MR64	GSE	134		1	ا ہ ا		8200168
	8200168	В	Tee wit in a w montex		υ	STL	MR64	GSE	34	Т	$\top$	ò		8200161
	8200168	4	CB#1 TYPE A BUFFER	$\perp$	U	STL	MR64	GSE	134		!	l ō l		8200322
i	8200168 PL		CB1 TYPE A BUFFER	11	U	STL	MR64	GSE	34	Т		0		8200168
	8200169	4	PC 31 TYPE A BUFFER	$\perp$	υ	STL	MR 64	GSE	134	ļ.	1			8200168
	8200170	1_	SCHEMATIC	11	Ų	STL	MR64	GSE	34	Т		0		8200171
	8200171	18		_	U	STL	MR64	GSE	134	loz	63	č		8200161
ı	8200171 PL	1	CB 32 TYPE A INVERTE	$\Box$	U	STL		GSE	34	T		ō	-	8200171
I	8200172	+-	PC#2	$\bot$	U	SIL	MR64	GSE	34			0		8200171
	8200173	1	SCHEMATIC		Ü	STL	MR64	GSE	34			o		8200161
	8200173	1-	SCHEMATIC		U	SIL	MR64	GSE	134	1	1 1	0		8200174
	8200174	В		1.	U	SIL	MR64	GSE	34	02	63	c		8200171
	8200174 PL	4	CB#3 TYPE A & GATE	$\perp \perp$	Ų	STL	MR64	GSE	34	-		o l		8200174
	8200175	A	PC 33	$\Pi$	U	STL	MR64	GSE	34	02	63	c		8200174
	8200176	1	SCHEMATIC	Ш	U	STL	MR64	GSE	34	1		ó		8200177
	8200177	1	CB#4 CLEAR COMMAND		U	STL	MR64	GSE	34	1	$\vdash$	0		8200322
	8200177 PL	1	CB#4 CLEAR COMMAND		U	STL	MR64	GSE	34	1	]	ŏ		8200177
	8200178		PC#4	$T^{T}$	Ū	5 L	MR64	GSE	34			Ö		8200177
	8200179	1	SCHEMATIC		Ú.	SIL	MR64	GSE	34	ĺ		ا ه		8200180
	8200180	B	CB35 TYPE A ONE SHOT	П	U	STL	MR64	GSE	34	0.2	63	c		8200174
	8200180 PL	╄-	CB35 TYPE A ONE SHOT	$\perp \perp$	U	STL	MR64	GSE	34	-		ō l		8200180
	8200181	ł	PC#5	П	U	STL	MR64	GSE	34			ō		8200180
	8200182	$\vdash$	SCHEMATIC	LÞ	Ų	STL	MR64	GSE	34			ŏ		8200183
	8200183	В	CB#6 CURRENT GEN		ς	STL	MR64	GSE	34			0		8200322
	8200183 PL	┺	CB#6 CURRENT GEN	ىلىل	u.	STL	MR64	GSE	34			ō l		8200183
	8200184	Α	PC#6	П	c	STL	MR64	GSE	34			ō		8200183
	8200185	1	SCHEMATIC	Ш	u l	STL	MR64	GSE	34			ŏ		8200186
	8200186	Ic	CB37 TYPE A FLIP FLP	ΙŪ	υĪ	STL	MR64	GSE	34	02	63	c		8200174
	8200186 PL	$\vdash$	CB#7 TYPE A	Li	ш	STL	MR64	GSE	34	"	[	ò		8200186
	8200187		PC#7	П	J	STL	MR64	GSE	34			0		8200186
	3200188	$\vdash$	SCHEMATIC	Щ	ı	SIL	MR64	GSE	34			ŏ		8200189
	3200189		CB#8 INTERFACE	П	JĪ	STL		GSE	34			0		8200322
	3200189 PL	Ш	CB#8 INTERFACE	Lli		STL		GSE	34			ŏ		8200189
	3200217		SCHEMATIC #1	П	آر	STL		GSE	34	_	-	- <del>0</del>		8200218
	200218	A	CB#1 LOGIC	Hi		STL		GSE	34			ŏ		8200295
	200218 PL	1	CB#1 LOGIC	T	J	STL		GSE	34			ŏ		8200218
	200219		PC#1	LIù	ار	STL	MR64	GSE :	34			ŏ		8200218
	200220	A	SCHEMATIC	l	ī	STL		GSE	34		$\dashv$	ö		8200221
	1200221	A	CB#2	l li		STL		GSE	34		- 1	ŏ	1	8200221

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	NUMER I CAL		PAGE	
 7.1	 BELEASE FOR	TEST DATE	DRAWING	

		BASE	43			;	*****		SE FOR			7 C	CONTROL	MEXT ASSEMBLY	3
:	DRAWING NO.	BO.	3 5	TITLE	5	3	COOL	\$C P+4L	THEU SEP.	P17.	<b>*</b> 0.	,,	STATUS		8
l <sub>A</sub>	8200221	PL		CB#2		Ü	STL	MR 64	GSE	34			0	8200221	l
15	8200222	_	'	PC#2		U	STL	MR64	GSE	34	L		0	8200221	1
10	8200223		Α	SCHEMATIC		Ü	STL	MR64	GSE	34			0	8200224	1
Ā	8200224	PΙ		CB#3		lυ	STL	MR64	GSE	34			0	8200224	Ш
H	8200224		-	CB#3	-	U	STL	MR64	65E	34			0	8200295	1 1
4	8200225			PC#3	•	Ιū	STL	MR64	USE	34	1		0	8200224	1 1
10	8200226		A	SCHEMATIC	Т	Ū	STL	MR64	GSE	34			0	8200227	$\Box$
Ľ	8200227	l		CB#4		U	STL	MR64	GSE	34	1		0	8200295	l _l
1	8200227	Dī .	-	CB#4	Ι-	ú	STL	MR64	GSE	34			0	8200227	$\Box$
17	8200228	l' -	Ì	PC#4	l	Ιŭ	STL	MR64	GSE	34		ì		8200227	11
15	8200229	i	-	SCHEMATIC	Т	Ū	STL	MR64	GSE	34		1	ō	8200230	
1	8200230	1	A	CB#5	ı	ĺΰ	STL	MR64	GSE	134			0	8200295	11
1 à	8200230	PI	+	CB#5	1	U	STL	MR64	GSE	34		1	C	8200230	1 1
17,	8200231	_	ì	PC#5	-	Ū	STL	MR64	GSE	34	İ		0	8200230	
Ď	8200232		+	SCHEMATIC		Ū	STL	MR64	GSE	34		1	Ü	8200233	1 1
	8200233	1	A	CB#6	ł	ΙŪ	STL	MR64	GSE	134		į .	0	8200295	
1	8200233	D.	+	CB#6	1	ΙŪ	514	MR 6.4	GSE	34	1-	1	Ü	8200233	$T^{-}$
17	8200234	-	1	PC#5		Ū	STL	MR64		34		1	0	8200233	1
15	8200235	<del>                                     </del>	+-	SCHEMATIC	t	Ĭŭ	SIL	MR 54	GSE	34	1	1	0	8200236	
ľ	8200236	i	Α	CB#7		Ιū		MR64	GSE	134		i		8200295	
H	8200236	D	<del>†</del> ~	CB#7	1-	Τŭ	SIL	MR.64	GSE	34	1	1	С	8200236	1
17	8200237	1 -		PC#7	ı	Ιŭ	SIL	MR64		134		1	1 0	8200236	
ĸ	8200238	┼	+	SCHEMATIC	†-	Ιŭ		MR64	GS t	34		1	0	8200239	
١.	8200239	1	A	CB#8	ı	Ĭŭ.		MR64		34		i	0	8200295	
14	8200239	101	+~	CB#8	+-	Ť		MR64		34		1	0	8200239	7-
17	8200240	1' -	1	PC#8	1	Ū		MR64		134		!	0	8200239	
15	8200241	<del> </del>	+	SCHEMATIC	1	Ιū		MR64	GSE	34		1	0	8200242	
I,	8200242	1	Α	=		Ιu	STL	MR64	GSE	34		1	0	8200295	
1	8200242	D1	۳	CB#9	$^{\dagger}$	ΙŪ		MR64	GSE	34	1	T	0	8200242	
TG.	8200243	1, -	1	PC#9	ı	Ιŭ		MR64	GSE	34	١		01	8200242	
lŏ	8200244	<del> </del>	+	SCHEMATIC	†"	Ū		MR64	GSE	34	T	I	C	8200245	4
15	8200245		A	I =	1	Ιŭ		MR64	GSE	34	l .	i	.0	8200295	
Ĭ			+-	PC#10	1	ΙŪ		MR64		34	T	1	С	8200245	
Ĭŏ			IA		1	ľ		MR64		34	$\perp$	i	0	8200248	
H	8200248		A	<del></del>	1	ΙŪ				34			0	8200295	
I A			A			Ü	_		GSE	34	1	1	0	8200248	
В	8200249		+	PC#11	1	ĬŨ		MR64		34			0	8200248	
Ĭŏ			lΑ		1	Ιū		MR64	GSE	34		1	0	8200251	. ↓_
H	8200251		+	CB#12	1	Ū				34			0	8200295	
Ă			A		1	Ιŭ				34	.	1	0	8200251	
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P	RAWING	LI	ST	MARINER F	101	•		•0.12	CAL				-	4-12-63	_
	DRAWING NO.	9452	11	TITLE	ģ	į	TERROR	PAIG BAIG	11 700 1768 1880 514.	1117. Pit.	PICEASE DATE No. 12	DRAWING CONTROL STATUS		MEXT	
	8200252			PC#12	t	lυ	STL	MR64	GSE	34		0	-	8200251	
	8200253			SCHEMATIC	1	Ιū	STL	MR64	GSE	34		0		8200254	
Т	8200254	$\vdash$	1	CB#13	Г	U	STL	MR64	GSE	34		0		8200295	
	8200256		A	SCHEMATIC	1	U	STL	MR64	GSE	34		С		8200257	
	8200257		+	CB##14		Ū	STL	MR64	GSE	34		0		8200295	
	8200258		Į.	PC#14		U	STL	MR64	GSE	34		0		8200257	
	8200259		+	SCHEMATIC	t	ΙŪ	STL	MR64	GSE	34		Ú		8200260	
	8200260			CB#15	1	Ιũ	STL	MR64	GSE	134		0		8200295	
	8200262		A	SCHEMATIC	+	Ιŭ	STL	MR64	GSE	34		0		8200263	
	8200263	<b>\</b>	A	CB#16	ı	ľű	STL	MR64		34				8200295	
	8200263	6	Ā	CB#16	1	ΙŪ	STL	MR64	GSE	34		0		8200263	
	8200264	-	IA	PC#16		Ĭŭ	STL	MR64	GSE	34		0		8200263	
	8200265		+~	2.4 KC OSCILLATOR	t	Ιŭ	STL	MR64	GSE	34		0		8200324	,
	8200266	1		CABLE DIA CC&S LOGIC	ļ	Ιŭ	STL		GSE	34		0 1		8200295	
	18200267	<del>                                      </del>	+	FAN PLATE	†-	Ιŭ	STL	MR64	GSE	34		0		8200268	i
	8200268	1	1	FAN PLATE	ł	Ιŭ	STL		GSE	34	1			8200321	
	8200269	├	+	BRACKET	╁	۱ĭi	STL	MR 64	GSE	34		6	_	8200314	,
	8200270	l	1	BRACKET		Ιŭ	STL		GSE	34		0 1		8200314	,
	8200270	├	+-	GUSSET	+	Ιŭ	STL		GSE	34	<del>                                      </del>	0		8200314	
			1	CHANNEL BRACKET		ľű	STL	MR64		34	1 !	0		8200314	
	8200273		┿	TB#2	╈	Ιŭ	STL		GSE	34		l o		8200313	
		1	1	REAR PANEL	1	ľű	STL	MR64		34		ő		8200314	
	8200275	<b>├</b> ─	+-		+	ťΰ	STL	MR64	GSE	34	<del> -                                    </del>	0		8200277	
	8200276		A	SCHEMATIC	1	1 -	STL	MR64		34		0		8200174	
-	8200277	↓	1	CB#9 DRIVER INFACE	+-	U			<del></del>	34	<del>                                     </del>	0		8200277	
,	8200277	!	1	CB#9 DRIVER INFACE		U	STL	MR 64		1 -		1 6		8200277	
į	8200278		<b>↓</b> _	PC #9	+-	Ų		MR64		34	<del>  -</del>	0		8200280	
)	8200279	1	Α	SCHEMATIC	1	U		MR64		34		1 6 1		8200174	
_	8200280	<u> </u>	A	CB#10 INFACE	+	U	STL	MR64			<del> </del>	0		8200280	
ļ	8200280	PL	1	CB#10 INTERFACE	1	U	STL	MR64		34		l ŏ		8200280	
)	8200281		A		+-	ᄱ	SIL	MR64		34	<del>  </del>	+		8200283	
)			1	SCHEMATIC	1	Į۷	STL	MR64		34	1 1	0			
L	8200283		- A	CB#11 SYSIEM RELAY	+-	44	SIL	MR64	GSE	34	<del> </del>	- 9		8200174	
j				PC#11	1	ĮΨ	10,0	MR64		34	1 !	0		8200283	
į	8200285	Щ.	$\bot$	FRONT PANEL MACH	+	44		MR64		34	<del>                                     </del>	0		8200368	
j			C	BLOCKHOUSE LOGIC		U	10.5			34		0		8200322	
į			┸	FRONT PANEL MACH	4-	ļu		+		34	+	o l			
)				SCHEMATIC DIAG		ĮU	STL			34	1 1	0		8200299	
2	8200289	Ь.	l_	HEAT SINK BRACKET	┸	Ų				34	+	0		8200299	
)		1	Т	FRONT PANEL WIRING	1	U		MR64		34		0		8200349	
ŀ	8200291	1	1	FRONT PANEL MACH	1	Ιu	STL	MR64	GSE	134	1 1	10		8200349	ż

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R	RAWING	1.1	s t	CALIFORNIA/INS MARINER F								PAGE	9	4-12-63	
	DRAWING NO.	PASE NO.	11	TITLE	1	1	CODE	84114 8400	10 100 1100 1800 110	904P.	9818418 9418	DRAWING CONTROL STATUS		HEXT ABSEMBLY	Ī
П	8200292		A	BLOCKHOUSE CHAS WIRE	1-	tσ	STL	MR64	GSE	34		0		8200322	t
,	8200293		1	BLOCKHOUSE CARD FILE		U	STL	MR64	GSE	34		0		8200322	l
,	8200294		T	BLOCKHOUSE FRONT PNL		υ	STL	MR64	GSE	34		0			T
j i	8200295			LOGIC ASSY		lυ	STL	MR64	GSE	34	! !	0		8200321	١
,	8200296		t	FRONT PANEL MACH	_	U	STL	MR64	GSE	34		0		8200356	1
	8200297			REAR PANEL MACH		υ	STL	MR64	GSE	34		0		8200321	
	8200298		$\vdash$	MANUEL COMM BLOCK DG		U	STL	MR64	GSE	34		0		8200161	7
	8200298		c	MANUAL COMMANDS DGM		lυ	STL	MR64	GSE	34		0			
	8200299		Ť	HEAT SINK ASSY GEN	1	ίŪ	STL	MR64	GSE	34		0		8200322	-
	8200301		l a	SYSTEMS CHASS WIRING		Ú	STL	MR64	GSE	34		0		8200161	
	8200302			SYSTEMS CARD FILE #1	T	ů		MR64	G5E	34		0		8200161	
	8200303			CABLE ASY SYS LOGIC	1	Ū	STL	MR 64	GSE	34		0		8200321	
	8200304		+	SCHEMATIC	$\vdash$	ũ		MR64	G5E	34		0		8200305	
	8200305		l <sub>A</sub>	CB#12 TYPE A & GATE	Į	ŭ		MR64		34		0		8200174	
	8200306		<del>(``</del>	PC#12	1-	iii	STL	MR64	GSE	34		ō l		8200305	
	8200307			ADAPTER BRACKET		Ιŭ		MR64		34		ō		8200322	
	8200308		┼	BLOCKHOUSE CHASS WIR	+	tů	STL	MR64	GSE	34		0		1-200-2-	-
	8200309			FRONT PANEL WIRING	1	Ιŭ		MR64		34		o l		8200368	
	8200310		12	FRONT PANEL MACH	⊢	łΰ	STL	MR64	G5E	34		ŏ		8200324	
	8200311			FRAME	1	١ŭ		MR64	GSE	34	1 1	o l		8200314	
	8200311		+	CB#2	┪	lŭ	STL	MR64	GSE	34		ŏ		8200323	
	1			CHASSIS ASSY	1	ľ		MR64		34	i	0		8200323	
	8200314		Н	GROUND SUPPORT CC&S	┼-	ü	STL	MR64	GSE	34		ö		10200020	-
			П	BLOCKHOUSE ASSY	ŀ	ľ		MR64		34		ŏ		8200161	
	8200322		⊢	BLOCKHOUSE PWR SUP	╀╌	lü	STL	MR64	GSE	34		0		8200321	
			ı		ı	ľů	STL			34		0		8200321	
_	8200324 8200325		<del> </del> _	SYSTEMS POWER SUP	╀	Hü	STL	MR64	GSE	34	j	ŏ		8200321	
			I.		1	1 -		MR64				ŏ		8200174	
	8200326		Α	CB#13 TIMING & MIDCS	1-	받	STL	MR64	GSE	34		0		8200326	
	8200326	PL	ĺ	CB#13 TIMING	ı		STL		GSE	34				8200326	
	8200327		⊢	PC#13	╄	Ų					<del></del>	0		8200329	
	8200328		ĺ,	SCHEMATIC	1	ľ	STL	MR64	GSE	34					
	8200329		1 <sub>R</sub>	CB#14 TIMING&MCPU#2	+-	Ų	STL	MR64	GSE	34		0		8200174	
	8200329	PL	1	CB#14 TIMING&MCPU #2		ĮΨ	STL	MR64	GSE						
	8200330		↓_	PC#14	╄	U	STL	MR64	GSE	34	<b>i</b>	0		8200329	
	8200331		1	AGENA SEPARATION	1	U	STL	MR64	GSE	34		0		8200161	
_	8200332		<u>Ļ</u> .	SYSTEMS TIMING CONT	↓_	Ų	STL	MR64	GSE	34	L	0		8200161	
	8200333			SYSTEMS CARD FILE #2	1	U		MR64	GSE	34		Ò		8200161	
	8200334		1	CABLE ASY VAC RACK	┺	U	STL	MR 64	GSE	34		0		8200321	
	8200335		1	CONSOLE CABLE ASSY	1	U	STL	MR64	GSE	34		0		8200321	
	8200336		1	DIRECT ACCESS CBL #1	1	lu	ISTL	MR64	GSE	34		0		8200321	_

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RAWING	. Li	s T	MARINER R	864	• (	SE M	IUMER I	CALE	3Y D	VIC		PAGE	10	4-12-6
DRAWING NO.	9110	1:	TITLE	1	200	TERMON CON E	86161 8484	SE FOR 1 1768 THEFT SEE.	814F. 949.		174	DRAWING CONTROL STATUS		HEXT ASSEMBLY
8200337	1	+	DIRECT ACCESS CBL #2	┢	U	STL	MR64	GSE	34			0		8200321
8200338	1	1	DIRECT ACCESS SIGNAL	l	u	STL	MR64	GSE	34			0		8200343
8200339	1	A	SCHEMATIC	Г	Ū	STL	MR64	GSE	34	l	i i	0		8200340
8200340		A	CB#15 DIRECT ACCESS		lυ	STL	MR64	GSE	34			0		8200343
8200340	PI	1	CB#15 DIRECT ACCESS		lυ	STL	MR64	GSE	34			0		8200340
8200341	-	l <sub>B</sub>	PC#15	1	Ιū	STL	MR64	GSE	34			_ 0		8200340
8200342	+	1-	WIRING BLOCKHOUSE	$\vdash$	ΙŪ	STL	MR64	GSE	34			0		8200323
8200343	1	1	DIRECT ACCESS ASSY		lυ	STL	MR64	GSE	34	1		0		8200321
8200344	t	1	SCHEMATIC	Г	Ū	STL	MR64	GSE	34			0		1
8200345	1	1	RACK HARNESS	ı	υ	STL	MR64	GSE	34			0		8200321
8200346	<del>                                     </del>	1	SCHEMATIC	Г	Ū	STL	MR64	GSE	34			0		8200324
8200347	1	1	CARD RACK ASSY	1	U	STL	MR64	GSE	34	L.,	i	0		8200161
8200347	1	+	CARD FILE ASSY	Г	ΙŪ	STL	MR64	G\$E	34			0		8200322
8200347	1	1	CARD RACK ASSY	1	lυ	STL	MR64	GSE	34			_ 0		8200295
8200348	<del> </del>	+-	LOGIC SCHEMATIC		lü	STL	MR64	GSE	34			0		8200295
8200349	1	1	FRONT PANEL ASSY	1	Ιū	STL	MR64	GSE	34	Į.	1	0		8200322
8200350		+	REAR PANEL ASSY	1	Ū	STL	MR64	GSE	34	$\overline{}$	1	0		8200322
8200351		1	REAR PANE: MACH	1	lυ	STL	MR64	GSE	34	1		0		8200350
8200352		+-	CHASSIS ASSY	一	ΙŬ	STL	MR64	GSE	34	$\Box$		0		8200322
8200353			CHASSIS PLATE MACH		Ιŭ	STL	MR54	GSE	34	١		0		8200352
8200354		+-	PANEL SIDE	T	ĺυ	STL	MR64	GSE	34			0		8200322
8200355		1	TERMINAL STRIP	İ	Ιŭ	STL	MR64	GSE	34	1	!	0		8200322
8200356		+-	FRONT PANEL ASSY	1	Ιŭ		MR64	GSE	34		1 -	0		8200295
1		1	REAR PANEL ASSY	ļ	Ιŭ	1	MR64	GSE	34	1		o l		8200295
8200357		+	REAR PANEL MACH	✝	Ιŭ	STL	MR64	GSE	34	<del>                                     </del>		0		8200357
8200359		1	CHASSIS ASSY	1	I,	STL	MR64	GSE	34	l		ō		8200295
8200360		+-	CHASSIS MACHINING	t	Ιŭ		MR64	GSE	34	$^{-}$	1	ó		8200359
8200361		1	PANEL SIDE	1	۱ŭ		MR 64	GSE	34	1	1	ō		8200295
8200362		+	CHASS MACHENGRAVING	+	Ιŭ		MR64	GSE	34	1	T	0		8200161
8200363		1	REAR PANEL ASSY	1	I,	STL	MR64	GSE	34	1	1	0		8200161
8200364		+-	REAR PANEL MACH	T	Ĭΰ		MR64	GSE	34	1	1	ō		8200363
8200365			BOTTOM PLATE	1	Ĭŭ		MR64	GSE	134	I	1	0		8200161
8200366		+	COVER PLATE PWR SUPL	1	Ιŭ				34	T	Ī	0		8200161
			SIDE PANEL	1	Ιŭ		MR64		134	1	1	ا ہ		8200161
8200367		+	FRONT PANEL ASSY	†	Ιŭ				134	T	1	0		8200161
8200369		1	POWER SUPPLY ASSY	!	Ιŭ	1	1		34	l	•	Ō		8200161
8200369		╁╴	SCHEMATIC	+	Τŭ		+		34	1	1	ō		8200373
8200371			BLANK PANEL		Ιŭ	1			34	1	1	ō	1	8200321
		+	PC#17	$^{+}$	۲ŭ	<del></del>	1		34	-	1-	ō		8200373
8200372		1	CB#17	1	lü		MR64		34	1	1	ō	1	8200295
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1	DRAWING NO.	3 44 H	i i	TITLE	d,	ELASS	VEH-000		ASS FOR P ICEM	#05#. -1 # F.	111		DRAWING CONTROL STATUS		NEKT ASSEMBLY	Ī
	5200373	ΡĹ	1	CB#17		U		MK 64	955	34		1 1	0		8200373	†
	5200374 8200375			BLOCKHOUSE CONFIG	_	U		MR 64		54			- 0		<del></del>	_
			-	JEGUN 1003E WINTING			31.	INK SA	1325	24						-
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) F	AWING		-				-		111 /21	T		161		12	4-12-0
ž	DRAWING NO.	BASH NO.	1 5	TITLE	8	3	0000 PE 0000		THE	2 E E E .		47 6	CONTROL STATUS		MEXT ASSEMBLY
J	119451		Т	PLATES FEED THRU	T	U	JPL	MR 64	GSE	35		1	0		
Ç	119452		L	PLATE FEED THRU MCM	L	U	JPL	MR64	GSE	35		1 1	0		
-	8200020		A	PANEL		U	JPL	MR64	GSE	35	01	63	J		8200502
	8200022			PLATE FUNCTION	1_	U	JPL	MR 64	GSE	35	01	63	J	Į	8200502
	8200023		ļΑ	PLATE FUNCTION	T	Ų	JPL	MR 64	GSE.	35	01	63	J		8200502
	8200024		A	PLATE FUNCTION	1	U	JPL	MR64	GSE	35	02	62	J		8200518
3	8200025		Α	PLATE FUNCTION	1	Ū	JPL	MR64	GSE	35	01	63			8200502
	8200026		Α	PLATE FUNCTION		U	JPL	MR 64	GSE	35		63	Ĵ		8200502
Ĉ	8200028		A	BRACKET	İΤ	Ū	JPL	MR64	G5E	35	~~~	531			8200502
3	8200031		A	SUPPORT		lυ	JPL	MR64	GSE	3.5	.,	63	Ĵ		8200502
= 1	8200032		Α	RETAINER	1	111	JPL.	MR64	GSE	35	01	63	<del>- j</del>		8200502
3	8200033		Α	SUPPORT SWITCH		lŭ.	JPI	MR64	GSE	35	o1	63	J		8200502
3	8200034			RESISTOR ASSEMBLY	$^{+}$	ij.	JPL	MR64	GSE	35	01	63	- <u>j</u>		8200502
,	8200037		A	JUNCTION PANEL		ŭ	JPL	MR54	GSE	35		63			8200518
7	8200067		A	CONNECTOR INTERFACE	+-	i,	JPL	MK 64	GSE	35		63	_ <u>J</u>		
	8200100		l A	ANGLE SHELF SUPPORT	1	ŭ	JPL	MR64	GS E	35		63	J		8200518
1	8200101		A	DRAWER SHELF	+-	Ü	196	MR64	GSE	35		53	<del></del>		8200518
5	8200102		В	SUPPORT		l.	JPL	MR64		35	~ -	63	ر		8200518
	8200112		Ā	PCA RESET MONITOR	┼	ŭ	JPL	MR64	GSE	35		63	<u> </u>		8200518
	8200501		A	WIRING DIAGRAM		ŭ	JPL	MR64	GSE	35		63	_		3200518
	8200502		17	PYROTECHNIC MON A	-		JPL	MR 64					<u> </u>		8200502
- 1	8200503			PYROTECHNIC MON B		2			GSE			63	J		8200518
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_			1	CIRCUIT BD 1 ASSY	1_	U	JPL.	MR64		+		63	J		8200502
	8200516	٠.		CIRCUIT BOARD ASSY		U	JPL	MR64	GSE		~ -	63	J		8200502
	8200516	۲		COMPONENT PARTS LIST	┺	U	JPL		GSE		01	63	بال		8200516
	8200518		1	PYRO MONITOR CONSOLE	1	U	JPL		üSΕ	35		1	0		
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- 1	8200520			SCHEMATIC DIAGRAM		U	JPL	MR64	USE	35	01	63	J		0200516
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	8900702			CABLE 2W322		U	JPL	MR 64	GSE	35			0		8900701
	8900703			CABLE 2W324	_	U	JPL	MR64	GSE	35			0		8900701
1	8900455		A	CONSOLE CABLE #4	1	U	JPL	MR64	GSE	35	01	63	J		8200518
	8900456		A	CONSOLE CABLE #1	Ш	٥	JPL	MR64	GSE	35	Ē١.	63	اير		8200518
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	8900460		А	CONSOLE CABLE #7		U	JPL !		GSE		- 1	63	j		8200518
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	8900593		1	PWR JUNCT BOX 4A3MR	1	U	JPL	MR64	GSE	35	02	63	J		
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	8900635		t	CABLE ASSY 3W414	T	U	JPL	MR64	GSE	35	02	63	J		8900469
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	8900637		†	CABLE ASSY 3W416	$\top$	U	JPL.	MR64	GSE	35	02	63	J		8900469
	8900638		1	CABLE ASSY 3W417	1	U	JPL	MR64	GSE		02	63	J		8900469
	8900639		T	CABLE ASSY 2W86		U	JPL	MR 64	GSE			63	J		8900469
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	8700005		1	FIXTURE HANDLE MCPU		U	JPL	MR64	GSE	38			<del>- j -  </del>			-
	8700044			DIAPARAGM LEAK TEST		U	JPL	MR64	GSE	38	08	62	J			
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	8700077			BLADDER TEST MANIFLD		lυ	JPL	MR64	GSE	38	1		5		İ	
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#### Supplement II

#### Mariner Specification Lists

This Supplement comprises numerical listings of all *Mariner* specifications published before January 1, 1963. The specifications are grouped in six categories, presented as subsections A to F:

- A. Inclusive Mariner Specifications
- B. Mariner R Design Specifications
- C. Mariner R Detail Specifications

- D. Mariner R Test Specifications
- E. Mariner R General Specifications
- F. Mariner R Process Specifications

With the exception of items in the inclusive list (subsection A), all these specifications are applicable to the Mariner R program. In the inclusive tabulation, specifications are listed for Mariners M(C), B, and R; that is, for all Mariner spacecraft with the exception of Mariner A.

#### A. Inclusive Mariner Specifications

Number	Revision	Date released	Document
20505 20507 30219 30225	- <b>A</b>	11/05/62 11/22/61 2/20/61 3/03/61	Proc Spec, Mar R flgt eqp, installation of case harness interconnect subassems Proc Spec, Mar R flgt eqp, electrical cabling and interconnection Proc Spec, Mar flgt eqp, nickel plating (electro-deposited) for magnesium subchassis Genl Spec, S/C Operations Bldg, AMR Assembly and Checkout Facility for NASA/JPL Mariner S/C Program

Number	Revision	Date released	Document
30247	-A	6/13/62	Test Spec, Mar R flgt eqp, S/C sys and subsys harness assems and subassems, unit 9
30249	-В	2/13/62	Dsn Spec, Mar R, preliminary pre-injection trajectory criteria
30250	-A	11/28/62	Envir Spec, Mar R and Mar C flgt eqp, type approval test requirements, assem level
30251	- <b>A</b>	11/28/62	Envir Spec, Mar R and Mar C flgt eqp, flgt accpt test requirements and pre-acceptance test limits, assem level
30254		10/12/61	Envir Spec, Mar R, structural qualification test requirements
30256		1/22/62	Envir Spec, Mar R flgt eqp, envir test requirements for composite S/C
30257		3/12/62	Envir Spec, Mar B, flgt eqp, type approval test requirements, assem level
30258		4/10/62	Envir Spec, Mar B, flgt eqp, flight acceptance test requirements and pre-acceptance test limits, assem level
30259		3/20/62	Envir Spec, Mar R flgt eqp, environmental test requirements for composite S/C less-than-optimum vacuum temperature tests
30260		6/19/62	Dsn Spec, Mar R flgt eqp, S/C sys and subsys harness assems and subassems
30271		10/08/62	Proc Spec, Mar R flgt eqp, potting of ends of wet foil, tantalum capacitor GE29F2397 G3, 100v, 7.5mf, plus or minus 3% and matched to plus or minus 2%
30392	-A	4/27/61	Dsn Spec, Mar flgt eqp, telemetering development, analog-to-digital converter
30394		2/15/61	Dsn Spec, Mar B flgt eqp, attitude control sys, image dissector
30407		9/14/61	Dsn Spec, Mar flgt eqp, S-band transponder subsys, balanced-mixer preamplifier
30408	-A	11/08/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys 50-mc IF amplifier and second mixer
30409		9/18/61	Dsn Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys 10-mc IF amplifier
30410	-A	11/15/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys phase and AGC detector
30411	-A	10/10/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, loop filter
30412	-В	11/14/62	Dtl Spec, Mar R and Mar figt eqp, L-band and S-band transponder subsys, voltage controlled oscillator
30413	-A	10/30/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, frequency divider
30414		9/13/61	Dsn Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, AGC filter and isolation amplifier
30415	-A	11/09/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, auxiliary oscillator
30421	-A	12/04/62	Dtl Spec, Mar R flgt eqp, L-band transponder subsys, balanced-mixer preamplifier
30422	-A	12/05/62	Dtl Spec, Mar R flgt eqp, L-band transponder subsys, X42 multiplier
30424		12/12/60	Dsn Spec, Mar flgt eqp, S/C transmitter, Klystron amplifier, phase 1
30442	-c	6/04/62	Dtl Spec, Mar R flgt eqp, attitude control subsys, gyro subassem, miniature floated gyroscope
30455	-c	12/06/61	Dsn Spec, Mar R figt eqp, power supply sys, solar panel assems 4A11, 4A12
30474	-c	4/20/62	Dsn Spec, Mar flgt eqp, telemetering development, magnetic tape recorder
30481	-8	10/23/62	Dtl Spec, Mar flgt eqp, power supply subsys, charger 4A7 (replaced by JPL spec 30962)
30498		10/25/61	Test Spec, Mar R flgt eqp, power supply subsys, solar panel structure
30513		5/25/62	Dsn Spec, Mar B grnd sup eqp, data automation sys, power supply
30553		6/18/62	Dsn Spec, Mar B grnd sup eqp, high-resolution TV recorder
30557	-C	3/19/62	Dsn Spec, Mar A and R grnd sup eqp, telemetry, digital decommutator
30559	-c	12/06/61	Dsn Spec, Mar R grnd sup eqp, telemetry, data demodulator
30577	-A	11/13/61	Dsn Spec, Mar R grnd sup eqp, checkout, telemetry, data printout subsys
30581		2/13/62	Test Spec, Mar R flgt eqp, S/C electronics, antenna electronics subassem 7A13
30582	-A	1/26/62	Dsn Spec, Mar R grnd sup eqp, AMR Launch Complex No. 12
30590		2/06/62	Functional Specs and power source and grounding sys requirements for Mariner system test comp
30592		3/10/62	Dsn Spec, Mar B grnd sup eqp, instrumentation, real-time slow-scan TV monitor
30593		4/11/62	Dsn Spec, Mar B grnd sup eqp, S-band receiver, ground monitor equipment
30596	-В	6/14/62	Dsn Spec, Mar B grnd sup eqp, real-time slow-scan TV monitor
30599	-A	5/31/62	Dsn Spec, Mar B grnd sup eqp, checkout, star-planet simulator
30702		4/27/62	Dsn Spec, Mar B grnd sup eqp, checkout, flight data encoder
30706	-A	7/30/62	Dsn Spec, Mar B grnd sup eqp, scientific instruments, power supply
30717	-A	8/14/62	Dsn Spec, Mar B grnd sup eqp, digital decommutator
30718	1	8/08/62	Dsn Spec, Mar grnd sup eqp, laboratory power supplies, 2400-cps square-wave 25-w supplies

Number	Revision	Date released	Document
30719	-A	9/21/62	Dsn Spec, Mar R, grnd sup eqp, command modulation checker
30723		8/17/62	Dsn Spec, Mar M grnd sup egp, flight data encoder
30725	-В	10/03/62	Dsn Spec, Mar B, M, R, grnd sup eqp, telemetry data decommutator, bidirectional
30728		10/08/62	Dsn Spec, Mar M, grnd sup eqp, command subsys test console
30733		11/20/62	Dsn Spec, Mar C grnd sup eqp, S-band transponder, S-band test set
30739		12/03/62	Dsn Spec, Mar grnd sup eqp, command receiver test eqp, RF signal generator
30801		6/26/61	Dsn Spec, Mar flgt egp, telemetering development, magnetic sensor switching logic
30804	-A	2/09/62	Test Spec, Mar R flgt eqp, power supply sys, solar panel assems 4A11, 4A12
30825		9/27/62	Dsn Spec, Mar flgt eqp, communications transponder, 20-cps, S-band, Mark I
30835	-A	5/16/62	Test Spec, Mar R flgt eqp, attitude control subsys, long-range Earth sensor 7A10
30837	- <b>A</b>	10/23/62	Test Spec, Mar R flgt eqp, attitude control subsys, switching amplifier and internal logic
20040		10/01/40	subassem 7A18 (replaced by JPL Spec 30942)
30840	-A	10/01/62	Dtl Spec, Mar R flat eap, attitude control subsys, control gyros 7A1
30842		2/13/62	Test Spec, Mar R flgt eqp, attitude control subsys, gyro control electronics 7A2
30843	-A	6/27/62	Test Spec, Mar R flgt eqp, attitude control subsys, accelerometer and electronics 7A3
30853		8/22/61	Test Spec, Mar flgt eqp, spacecraft structure, Earth antenna yoke and hinge structure
30855		8/22/61	Test Spec, Mar flgt eqp, S/C structure, planetary horizontal platform
30856	-A	4/13/62	Test Spec, Mar B flgt eqp, attitude control subsys, horizon scanner assem 7A16
30858		10/18/61	Test Spec, Mar R flgt eqp, temperature control subsys, louver temperature control
30860		12/06/61	Test Spec, Mar R flgt eqp, autopilot electronic subassem 7A4
30863		9/07/61	Dsn Spec, Mar R flgt eqp, pyrotechnic subsys, arming switch
30865		10/20/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, command directional coupler
30868	-A	7/24/62	Test Spec, Mar R flgt eqp, L-band transponder subsys, L-band filter 2A9
30870		9/28/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, directional antenna rotary joint subassem 2A8
30872	-A	11/10/61	Dsn Spec, Mar R flgt eqp, L-band transponder subsys, circulators and power monitors, Mark I
30874		9/11/61	Test Spec, Mar flgt eqp, L-band transponder subsys, transformer-rectifier 2A14, 2A15
30878	- <b>A</b>	11/15/61	Dsn Spec, Mar flgt eqp, attitude control sys, high-temperature image dissector
30881		9/28/61	Dtl Spec, Mar R, vehicle sys integration, requirements and restraints
30882	-A	9/28/61	Dsn Spec, Mar R flgt eqp, power supply sys, solar panel structure
30884		10/19/61	Test Spec, Mar R flgt eqp, midcourse and approach propulsion sys, pneumatic regulator
30885	- <b>A</b>	9/26/62	Dsn Spec, Mar R flgt eqp, L-band transponder functional unit, transformer-rectifier Mark II
30887	-A	5/07/62	Test Spec, Ranger A5 and Mar R flgt eqp, S/C structure, antenna actuator
30888		10/20/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, circulators and power monitors, Mark I
30889		10/20/61	Dsn Spec, Mar R flgt eqp, L-band transponder subsys, junction box and antenna transfer switch
30893	-В	9/26/62	Dsn Spec, Mar R flgt eqp, L-band transponder subsys, L-band circulator and power monitor, Mark II
30896		10/26/61	Test Spec, Mar R flgt eqp, attitude control subsys, celestial relay and power subassem 7A19
30897	-B	12/20/61	Test Spec, Mar R scientific instruments, scientific power switching unit 20A1
30898	- <b>A</b>	9/26/62	Test Spec, Mar R flgt eqp, L-band transponder subsys, transformer-rectifier 2A4, Mark II
30899	-A	12/27/61	Dsn Spec, Mar R flgt eqp, scientific instruments, infrared radiometer 27A1
30900	-B	3/26/62	Test Spec, Mar R flgt eqp, power supply sys, Case V
30901	-В	3/26/62	Test Spec, Mar R flgt eqp, power supply sys, booster-regulator power amplifier 4A4
30902	- <b>A</b>	4/11/62	Test Spec, Mar R flgt eqp, scientific instruments, cosmic dust detector 24A1
30903	-Ĉ	3/26/62	Test Spec, Mar R flgt eqp, power supply subsys, power switching and logic 4A1
		11/16/61	Test Spec, Mar R flgt eqp, midcourse propulsion sys, sys test requirements
30904 30905		11/03/61	Dtl Spec, Mar R flgt eqp, pyrotechnic subsys, primer chamber assem
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30906	-B	11/15/61 8/31/62	Test Spec, Mar R flgt eqp, telemetry sys, data encoder  Test Spec, Mar R flgt eqp, central computer and sequencer (CC&S)
30907		1. 1.	
30908	-A	1/11/62	Test Spec, Mar R combined unit, S/C adapter and shroud
30909	<u>.</u>	11/10/61	Dtl Spec, Mar R flgt eqp, transponder communications, transponder cavities subassem 2A3
30910	-A	6/13/62	Test Spec, Mar R flgt eqp, attitude control sys, Sun sensors 7A14, 15, 25, 26, 27, 28
30911	-A	6/13/62	Test Spec, Mar R flgt eqp, attitude control sys, Sun gate 7A31
30912	-A	12/29/61	Test Spec, Mar R flgt eqp, scientific instruments, infrared radiometer 27A1, and infrared calibrator 27A2
30913		11/28/61	Test Spec, Mar R, L-band transponder subsys
30914		11/14/61	Test Spec, Mar R flgt eqp, pyrotechnic subsys, primer chamber assem
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Number	Revision	Date released	Document
30916		11/09/61	Test Spec, Mar R scientific instruments, microwave radiometer unit 21
30917		11/17/61	Test Spec, Mar R scientific instruments, solar plasma unit 23
30919		11/27/61	Test Spec, Mar R scientific instruments, data conditioning sys 20A2
30920	- <b>A</b>	11/02/61	Test Spec, Mar R scientific instruments, particle flux detector 25A1
30921	- <b>A</b>	1/12/62	Test Spec, Mar R scientific instruments, cosmic ray ionization chamber 26A1
30922	- <b>A</b>	10/03/62	Test Spec, Mar R flgt eqp, L-band transponder subsys, circulators and power monitors, Mark II
- 1	-^	1 1. 1.	
30924		11/27/61	Test Spec, Mar R flat eqp, L-band transponder subsys, junction box and antenna transfer switch
30930		12/13/61	Test Spec, Mar R flgt eqp, command subsys
30931		12/04/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, omnidirectional antenna
30932		12/06/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, command antennas
30933		3/19/61	Test Spec, Mar R, pyrotechnic control subassem 8A1
30935		12/14/61	Test Spec, Mar R L-band transponder subsys, high-gain directional antenna
30937		2/20/62	Dsn Spec, Mar B engineering prototype and flight equipment, scientific instruments, cosmic ray spectrum analyzer
30940	-A	9/28/62	Test Spec, Mar R flgt eqp, attitude control gas actuator sys, pneumatic regulator
30942		12/18/61	Test Spec, Mar R flgt eqp, attitude control subsys, switching amplifier and internal logic subassem 7A18
30943		12/29/61	Test Spec, Mar R flgt eqp, attitude control gas actuator sys, pressure vessel
30946	-A	6/15/62	Test Spec, Mar R flgt eqp, ESB Model 201 battery
30948	-B	8/08/62	Dsn Spec, Mar R P-37 and P-38 flgt eqp, Cytherean target criteria
30949	-A	2/20/62	Dsn Spec, Mar B engineering prototype and flight equipment, scientific instruments, solar plasma detectors
30950		1/31/62	Test Spec, Mar R flgt eqp, pyrotechnic subsys, arming switch assem
30955		2/19/62	Dsn Spec, Mar R flgt eqp, general requirements for static-power inverters
30956		2/17/62	Dil Spec, Mar R figt eqp, power supply sys, power switching and logic 4A1
		2/19/62	
30957		'. '. I	Dtl Spec, Mar R flgt eqp, power supply sys, booster-regulator oscillator 4A1
30958		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, booster-regulator power amplifier 4A4
30959		3/02/62	Dtl Spec, Mar R flgt eqp, power supply sys, synchronizer supply 4A6
30960		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, 2.4-kc power amplifier 4A9
30961		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, 400-cps power amplifier 4A8
30961		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, 400-cps power amplifier 4A8
30962		2/19/62	Dti Spec, Mar R flgt eqp, power supply sys, charger 4A7
30963		3/02/62	Test Spec, Mar R flgt eqp, solar panel actuator, linear
30964		5/23/62	Test Spec, Mar R flgt eqp, radiometer scan actuator 21A2
30965	-A	4/24/62	Dsn Spec, Mar B structural test module, solar panel
30966	- <b>A</b>	4/11/62	Dsn Spec, Mar B engineering prototype and flight equipment, scientific instruments, infrared radiometer
30967	- <b>A</b>	3/29/62	Dsn Spec, Mar B flgt eqp, power supply sys, Venus solar panel assem
30968		7/27/62	Test Spec, Mar B flgt eqp, power supply sys, solar panel assem
30971	-A	3/23/62	Dsn Spec, Mar B engineering prototype and flight equipment, scientific instruments, trapped radiation detectors 28A1
30974	- <b>A</b>	5/01/62	Dsn Spec, Mar B scientific instruments, ultraviolet spectrometer
30975	-A	5/04/62	Dsn Spec, Mar B flgt eqp, antenna and planetary horizontal platform actuators
30977		3/22/62	Dsn Spec, Mar B engineering prototype and flgt eqp, scientific instruments, medium-energy-proto directional monitor 29A1
30978		3/09/62	Dsn Spec, Mar R flgt eqp, battery
30981		3/29/62	Dsn Spec, Mar B flgt eqp, power supply sys, Mars solar panel assem
30982		4/19/62	Dtl Spec, Mar B rigit eqp, power supply sys, mars solar panel assem
30983	-A	5/21/62	Dtl Spec, Mar B flgt eqp, inertial reference module, force balance accelerometer transducer
	~~		(confidential)
30985	_	6/19/62	Genl Spec, Mar B flgt eqp, electronic package
30987	-C	10/18/62	Dsn Spec, Mar B flgt eqp, power supply sys, solar panel structure
30989	-В	6/21/62	Dsn Spec, Mar B flgt eqp, optical sys for vidicon TV cameras
30992	-В	7/31/62	Dsn Spec, Mar B flgt eqp, jet vane actuator
30994		4/27/62	Dsn Spec, Mar B flgt eqp, prototype flgt data encoder
30998	-В	6/26/62	Dsn Spec, Mar B engineering prototype and flight equipment, scientific instruments, infrared radiometer 41A1 for Mars mission

Number	Revision	Date released	Document
31000		5/07/62	Dsn Spec, Mar B flgt eqp, telemetry, magnetic-tape recorder, 2 $ imes$ 106 bit capacity
31005		5/21/62	Dsn Spec, Mar B flgt eqp, attitude control sys, Canopus cone-angle generator
31008	-A	9/12/62	Dsn Spec, Mar B flgt eqp, telemetering development, video magnetic tape recorder, 10s bit capacity
31009	- <b>A</b>	9/12/62	Dsn Spec, Mar B flgt eqp, telemetering development, engineering magnetic tape recorder, 107 bit capacity
31013	-A	10/24/62	Dsn Spec, Mar B flgt eqp, spacecraft ranging coder subsys, unit 13
31022		7/25/62	Dsn Spec, Mar B flgt eqp, command subsys, single-channel command detector
31023		7/26/62	Dsn Spec, Mar B command subsys, single-channel command modulator, breadboard design and performance
31024		7/25/62	Dtl Spec, Mar R flgt eqp, L-band transponder subsys, L-band filter 2A9
31028		11/30/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, power switching and logic
31029		11/27/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, booster-regulator power amplifier 4A4
31030		12/05/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, booster-regulator oscillator 4A1
31031		11/27/62	Dil Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, synchronizer supply 4A6
31032		11/27/62	Dil Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, 2.4-kc power amplifier 4A9
31033		11/30/62	Dil Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, 400-cps power amplifier
31034		12/03/62	Dil Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, 400-cps power amplifier
31035		12/07/62	Dil Spec, Mar R-3, 4, 5, 6, 7 figt eqp, power supply sys, charger 4A/
31036		12/03/62	Test Spec Mar R-3 4 5 6 7 flat can have supply sys, Case V
31050	İ	8/20/62	Test Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, power switching and logic 4A1 Dsn Spec, Mar M flgt eqp, engineering prototype, infrared spectrometer
31053		8/17/62	Dan Spec, Mar P follow on flat and adjustification and the spectrometer
31054	-A	8/28/62	Dsn Spec, Mar R follow-on flgt eqp, scientific instruments, infrared radiometer 27A1
31056	-A	9/09/62	Proc Spec, Mar M flgt eqp, CC&S harness fabrication test and encapsulation Proc Spec, Mar R flgt eqp, fabrication CC&S
31057	-A	8/28/62	
31060	- <b>A</b>	9/07/62	Proc Spec, Mar R flgt eqp, CC&S harness fabrication test and encapsulation
31063	-A	11/26/62	Proc Spec, Mar M flat eqp, fabrication CC&S
31064	· `	8/22/62	Dtl Spec, Mar R flgt eqp, CC&S unit 5
31065		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S central clock subassem 5A1
31066		8/27/62	Test Spec, unit accept, Mar & flgt eqp, CC&S launch counter subassem 5A2
31067		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S end counter subassem 5A3
31068		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S maneuver clock subassem 5A4
31069		8/23/62	Test Spec, unit accept, Mar R flgt eqp, CC&S maneuver duration subassem 5A5
31070		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S address register and maneuver duration output 5A6
31071		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S input decoder subassem 5A7
31072		8/23/62	Test Spec, unit accept, Mar R flgt eqp, CC&S transformer-rectifier subassem 5A8
31073		8/23/62	Test Spec, unit accept, Mar M flgt eqp, CC&S central clock subassem 5A1
31074		8/23/62	Test Spec, unit accept, Mar M flat eqp, CC&S launch counter subassem 5A2
31075		8/23/62	Test Spec, unit accept, Mar M flgt eqp, CC&S end counter subassem 5A3
31076		8/23/62	Test Spec, unit accept, Mar M flat eqp, CC&S maneuver clock subassem 5A4
31077		8/24/62	Test Spec, unit accept, Mar M flgt eqp, CC&S maneuver duration subassem 5A5
31078			Test Spec, unit accept, Mar M flgt eqp, CC&S address register and maneuver duration output subassem 5A6
31079		8/24/62	Test Spec, unit accept, Mar M flgt eqp, CC&S input decoder subassem 5A7
31082		8/23/62	Test Spec, unit accept, Mar M flgt eqp, CC&S transformer-rectifier subassem 5A8
	-A	10/03/62	Dsn Spec, Mar B flgt eqp, engineering prototype, data conditioning unit 50
31084		8/30/62	Dsn Spec, Mar M Flgt eqp, CC&S
31088	1	8/30/62	Dtl Spec, Mar M flgt eqp, CC&S unit 5
31090	-В	9/24/62	Genl Spec, Mar R flgt eqp, electronic packaging
31090	-6	12/14/62	Dtl Spec, Mar R flgt eqp, communications transponder, 20-cps L-band, Mark II 2A1, 2A2
		10/08/62	Dsn Spec, Mar M flgt eqp, command subsys
31108	-В	11/05/62	Dsn Spec, Mar M flgt eqp, optical system for vidicon camera
31112		10/12/62	Dsn Spec, Mar R-6-10 flgt eqp, science subsys, data automation unit 20
31115	[	10/16/62	Dtl Spec, Mar R flgt eqp, Mark II transponder, 10-mc bandpass crystal filter
31141		11/01/62	Genl Spec, Mar R flgt eqp, installation of electronic subassems
311 <i>57</i>	-A	11/21/62	Dtl Spec, Mar R flgt eqp, L-band communications subsys, tricavity amplifier, planar triode
31160		11/15/62	Dtl Spec, Mar R and Mar flgt eqp, L-band transponder subsys, X-16 frequency multiplier
31167		11/30/62	Dtl Spec Mar C flat eap Mark I transported 10
	1	,,	Dti Spec, Mar C flgt eqp, Mark I transponder 10-mc bandpass crystal filter

#### B. Mariner R Design Specifications

Number	Revision	Date released	Document
30249	-В	2/13/62	Dsn Spec, Mar R preliminary pre-injection trajectory criteria
30260		6/19/62	Dsn Spec, Mar R flgt eqp, S/C sys and subsys harness assems and subassems
30392	-A	4/27/61	Dsn Spec, Mar flgt eqp, telemetering development, analog-to-digital converter
30407		9/14/61	Dsn Spec, Mar flgt eqp, S-band transponder subsys, balanced mixer preamplifier
30409		9/18/61	Dsn Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, 10-mc IF amplifier
30414		9/13/61	Dsn Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, AGC filter and isolation amplifier
30424		12/12/60	Dsn Spec, Mar flgt eqp, S/C transmitter, Klystron amplifier, Phase 1
30455	-C	12/06/61	Dsn Spec, Mar R flgt eqp, power supply sys, solar panel assem 4A11, 4A12
30557	-C	3/19/62	Dsn Spec, Mar A and R grnd sup eqp, telemetry, digital decommutator
30559	-C	12/06/61	Dsn Spec, Mar R grnd sup eqp, telemetry, data demodulator
30577	-A	11/13/61	Dsn Spec, Mar R grnd sup eqp, checkout, telemetry, data printout subsys
30582	-A	1/26/62	Dsn Spec, Mar R grnd sup eqp, AMR Launch Complex No.12
30590		2/06/62	Functional Spec, power source and grounding system requirements for Mariner system test complete
30718		8/08/62	Dsn Spec, Mar grnd sup eqp, laboratory power supplies, 2400-cps square-wave 25-w supplies
30719	-A	9/21/62	Dsn Spec, Mar R grnd sup eqp, command modulation checker
30725	-B	10/03/62	Dsn Spec, Mar B, M, R grnd sup eqp, telemetry data decommutator, bidirectional
30739		12/03/62	Dsn Spec, Mar grnd sup eqp, command receiver test eqp, RF signal generator
30801		6/26/61	Dsn Spec, Mar flgt eqp, telemetering development, magnetic sensor switching logic
30825		9/27/62	Dsn Spec, Mar flgt eqp, communications transponder, 20-cps, S-band, Mark l
30863		9/07/61	Dsn Spec, Mar R flgt eqp, pyrotechnic subsys, arming switch
30872	-A	11/10/61	Dsn Spec, Mar R flgt eqp, L-band transponder subsys, circulators and power monitors, Mark l
30878	-A	11/15/61	Dsn Spec, Mar flgt eqp, attitude control sys, high-temperature image dissector
30885	- <b>A</b>	9/26/62	Dsn Spec, Mar R flgt eqp, L-band transponder functional unit, transformer-rectifier, Mark II
30889		10/20/61	Dsn Spec, Mar R flgt eqp, L-band transponder subsys, junction box and antenna transfer switch
30893	-В	9/26/62	Dsn Spec, Mar R flgt eqp, L-band transponder subsys, L-band circulator and power monitor, Mark II
30899	-A	12/27/61	Dsn Spec, Mar R flgt eqp, scientific instruments, infrared radiometer 27A1
30948	-B	8/08/62	Dsn Spec, Mar R P-37 and P-38, flgt eqp, Cytherean target criteria
30955	_	2/19/62	Dsn Spec, Mar R flgt eqp, general requirements for static-power inverters
30978		3/09/62	Dsn Spec, Mar R flgt eqp, battery
31053		8/17/62	Dsn Spec, Mar R follow-on flgt eqp, scientific instruments, infrared radiometer, 27A1

## C. Mariner R Detail Specifications

Number	Revision	Date released	Document
30408	-A	11/08/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, 50-mc IF amplifier and second mixer
30410	- <b>A</b>	11/15/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, phase and AGC detector
30412	-B	11/14/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, voltage controlled oscillator
30413	-A	10/30/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, frequency divider
30415	-A	11/09/62	Dtl Spec, Mar R and Mar flgt eqp, L-band and S-band transponder subsys, auxiliary oscillator
30421	-A	12/04/62	Dtl Spec, Mar R flgt eqp, L-band transponder subsys, balanced-mixer preamplifier
30422	-A	12/05/62	Dtl Spec, Mar R flgt eqp, L-band transponder subsys, X-42 multiplier
30442	-C	6/04/62	Dtl Spec, Mar R flgt eqp, attitude control subsys, gyro subassem, miniature floated gyroscope
30481	-B	10/23/62	Dtl Spec, Mar flgt eqp, power supply sys, charger 4A7 (replaced by JPL Spec 30962)
30840	- <b>A</b>	10/01/62	Dtl Spec, Mar R flgt eqp, attitude control subsys, control gyros 7A1

#### C (Cont'd)

Number	Revision	Date released	Document
30881		9/28/61	Dtl Spec, Mar R vehicle system integration requirements and restraints
30882	- <b>A</b>	9/28/61	Dsn Spec, Mar R flgt eqp, power supply system, solar panel structure
30905		11/03/61	Dtl Spec, Mar R flgt eqp, pyrotechnic subsys, primer chamber assem
30909		11/10/61	Dtl Spec, Mar R flgt eqp, transponder communications, transponder cavities subassem 2A3
30956		2/21/62	Dtl Spec, Mar R flgt eqp, power supply sys, power switching and logic 4A1
30957		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, booster-regulator oscillator 4A1
30958		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, booster-regulator power amplifier 4A4
30959		3/02/62	Dtl Spec, Mar R flgt eqp, power supply sys, synchronizer supply 4A6
30960		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, 2.4-kc power amplifier 4A9
30961		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, 400-cps power amplifier 4A8
30962		2/19/62	Dtl Spec, Mar R flgt eqp, power supply sys, charger 4A7
31024		7/25/62	Dil Spec, Mar R flgt eqp, L-band transponder subsys, L-band filter 2A9
31028°		11/30/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 figt eqp, power supply sys, power switching and logic
310290		11/27/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, booster-regulator power amplifier 4A4
31030ª		12/05/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, booster-regulator oscillator 4A1
31031°	İ	11/27/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, synchronizer supply 4A6
31032ª		11/27/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, 2.4-kc power amplifier 4A9
31033ª		11/30/62	Dil Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, 400-cps power amplifier
31034°		12/03/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, charger 4A7
31035°		12/07/62	Dtl Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply sys, Case V
31063	-A	11/26/62	Dtl Spec, Mar R flgt eqp, CC&S, unit 5
31090	-В	12/14/62	Dtl Spec, Mar R flgt eqp, communications transponder, 20-cps, L-band, Mark II, 2A1-2A2
31115		10/16/62	Dtl Spec, Mar R flgt eqp, Mark II transponder, 10-mc bandpass crystal filter
311 <i>57</i>	-A	11/21/62	Dtl Spec, Mar R flgt eqp, L-band communications subsys, tricavity amplifier, planar triode
31160		11/15/62	Dtl Spec, Mar R and Mar flgt eqp, L-band transponder subsys, X-16 frequency multiplier

## D. Mariner R Test Specifications

Number	Revision	Date released	Document
30247	-A	6/13/62	Test Spec, Mar R flgt eqp, S/C sys and subsys harness assems and subassems, unit 9
30250	-A	11/28/62	Envir Spec, Mar R and Mar C flgt eqp, type approval test requirements, assem level
30254	ĺ	10/12/61	Envir Spec, Mar R structural qualification test requirements
30256		1/22/62	Envir Spec, Mar R flgt eqp, environmental test requirements for composite S/C
30259		3/20/62	Envir Spec, Mar R flgt eqp, environmental test requirements for composite S/C, less-than-optimum vacuum temperature tests
30498		10/25/61	Test Spec, Mar R flgt eqp, power supply subsys solar panel structure
30581		2/13/62	Test Spec, Mar R flgt eqp, S/C electronics, antenna electronics subassem 7A13
30804	-A	2/09/62	Test Spec, Mar R flgt eqp, power supply sys, solar panel assem 4A11, 4A12
30835	-A	5/16/62	Test Spec, Mar R flgt eqp, attitude control subsys, long-range Earth sensor 7A10
30837	-A	10/23/62	Test Spec, Mar R flgt eqp, attitude control subsys, switching amplifier and internal logic subassem 7A18 (replaced by JPL Spec 30942)
30842		2/13/62	Test Spec, Mar R flgt eqp, attitude control subsys, gyro control electronics 7A2
30843	-A	6/27/62	Test Spec, Mar R flgt eqp, attitude control sys, accelerometer and electronics 7A3
30853		8/22/61	Test Spec, Mar flgt eqp, S/C structure, Earth antenna yoke and hinge structure
30855		8/22/61	Test Spec, Mar flgt eqp, S/C structure, planetary horizontal platform

#### D (Cont'd)

Number	Revision	Revision Date released Document				
30858		10/18/61	Test Spec, Mar R flgt eqp, temperature control subsys, louver temperature control			
30860		12/06/61	Test Spec, Mar R flgt eqp, autopilot electronic subassem 7A4			
30865		10/20/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, command directional coupler			
1	-A	7/24/62	Test Spec, Mar R flgt eqp, L-band transponder subsys, L-band filter 2A9			
30868	-^	9/28/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, directional antenna rotary joint			
30870		,,20,51	subassem 2A8			
30874		9/11/61	Test Spec, Mar flgt eqp, L-band transponder subsys, transformer-rectifier 2A14, 2A15			
30884		10/19/61	Test Spec, Mar R flgt eqp, midcourse and approach propulsion sys, pneumatic regulator			
30887	-A	5/07/62	Test Spec, Ranger A5 and Mar R flgt eqp, S/C structure, antenna actuator			
30888		10/20/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, circulators and power monitors, Mark I			
30896		10/26/61	Test Spec, Mar R flgt eqp, attitude control subsys, celestial relay and power subassem 7A19			
30897	-В	12/20/61	Test Spec Mar R scientific instruments, scientific power switching unit 20A1			
30898	-A	9/26/62	Test Spec, Mar R flgt eqp, L-band transponder subsys, transformer-rectifier 2A4, Mark II			
30900	-В	3/26/62	Test Spec, Mar R flgt eqp, power supply sys, Case V			
30901	-B	3/26/62	Test Spec, Mar R flgt eqp, power supply sys booster-regulator power amplifier 4A4			
30902	-A	4/11/62	Test Spec, Mar R flgt eqp, scientific instruments, cosmic dust detector 24A1			
30903	-c	3/26/62	Test Spec, Mar R flgt eqp, power supply subsys, power switching and logic 4A1			
30904		11/16/61	Test Spec, Mar R flgt eqp, midcourse propulsion sys, system test requirements			
30906		11/15/61	Test Spec, Mar R figt eqp, telemetry sys, data encoder			
30907	-B	8/31/62	Test Spec, Mar R flgt eqp, CC&S			
30908	-A	1/11/62	Test Spec, Mar R combined unit, S/C adapter and shroud			
30910	-A	6/13/62	Test Spec, Mar R flgt eqp, attitude control sys, Sun sensors 7A14, 15, 25, 26, 27, 28			
30911	-A	6/13/62	Test Spec, Mar R flgt eqp, attitude control sys, Sun gate 7A31			
30912	-A	12/29/61	Test Spec, Mar R flgt eqp, scientific instruments, infrared radiometer 27A1, and infrared calibrator 27A2			
30913		11/28/61	Test Spec, Mar R, L-band transponder subsys			
30914		11/14/61	Test Spec, Mar R flgt eqp, pyrotechnic subsys, primer chamber assem			
30916		11/09/61	Test Spec, Mar R scientific instruments, microwave radiometer unit 21			
30917		11/17/61	Test Spec, Mar R scientific instruments, solar plasma unit 23			
30919		11/27/61	Test Spec, Mar R scientific instruments, data conditioning sys 20A2			
30920	-A	11/02/61	Test Spec, Mar R scientific instruments, particle flux detector 25A1			
30921	- <b>A</b>	1/12/62	Test Spec, Mar R scientific instruments, cosmic ray ionization chamber 26A1			
30922	-A	10/03/62	Test Spec, Mar R flgt eqp, L-band transponder subsys, circulators and power monitors, Mark II			
30924		11/27/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, junction box and antenna transfer switch			
30930		12/13/61	Test Spec, Mar R flgt eqp, command subsys			
30931		12/04/61	Test Spec, Mar R flgt eqp, L-band transponder subsys omnidirectional antenna			
30932		12/06/61	Test Spec, Mar R flgt eqp, L-band transponder subsys, command antennas			
30933		3/19/61	Test Spec, Mar R, pyrotechnic control subassem 8A1			
30935		12/14/61	Test Spec, Mar R L-band transponder subsys, high-gain directional antenna			
30940	-A	9/28/62	Test Spec, Mar R flgt eqp, attitude control gas actuator sys, pneumatic regulator			
30942		12/18/61	Test Spec, Mar R flgt eqp, attitude control subsys, switching amplifier and internal logic subassem 7A18			
30943		12/29/61	Test Spec, Mar R flgt eqp, attitude control gas actuator sys, pressure vessel			
30946	-A	6/15/62	Test Spec, Mar R flgt eqp, ESB model 201 battery			
30950		1/31/62	Test Spec, Mar R flgt eqp, pyrotechnic subsys, arming switch assem			
30963		3/02/62	Test Spec, Mar R flgt eqp, solar panel actuator, linear			
30964		5/23/62	Test Spec, Mar R flgt eqp, radiometer scan actuator 21A2			
31036*		12/03/62	Test Spec, Mar R-3, 4, 5, 6, 7 flgt eqp, power supply subsys, power switching and logic 4A1			
31064		8/22/62	Test Spec, unit accept, Mar R flgt eqp, CC&S central clock subassem 5A1			
31065		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S launch counter subassem 5A2			
31066		8/27/62	Test Spec, unit accept, Mar R flgt eqp, CC&S end counter subassem 5A3			
31067		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S maneuver clock subassem 5A4			
31068		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S maneuver duration subassem 5A5			
31069		8/23/62	Test Spec, unit accept, Mar R flgt eqp, CC&S address register and maneuver duration output 5.			
31070		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S input decoder subassem 5A7			
31070		8/24/62	Test Spec, unit accept, Mar R flgt eqp, CC&S transformer-rectifier subassem 5A8			
5.57	1	, - , -				

## E. Mariner R General Specifications

Number	Revision	Date released	Document
30225		3/03/61	Genl Spec, S/C Operations Bldg, AMR Assembly and Checkout Facility for NASA/JPL Mariner S/C Program
31088 31141		9/24/62 11/01/62	Genl Spec, Mar R flgt eqp, electronic packaging Genl Spec, Mar R flgt eqp, installation of electronic subassems

## F. Mariner R Process Specifications

Number Revision Date released		Date released	Document		
20505		11/05/62	Proc Spec, Mar R flgt eqp, installation of case harness, interconnect subassems		
20507		11/22/61	Proc Spec, Mar R flgt eqp, electrical cabling and interconnection		
30219	-A	2/20/61	Proc Spec, Mar flgt eqp, nickel plating, (electro-deposited) for magnesium subchassis		
30271		10/08/62	Proc Spec, Mar R flgt eqp, potting of ends of wet foil, tantalum capacitor GE29F2397 G3, 100 v, 7.5 mf, plus or minus 3% and matched to plus or minus 2%		
31056	-A	9/09/62	Proc Spec, Mar R flgt egp, fabrication CC&S		
31057	-A	8/28/62	Proc Spec, Mar R flgt eqp, CC&S harness fabrication test and encapsulation		

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# Supplement III Mariner R 1964 Equipment List

Prior to cancellation of the  $Mariner\ R$  Project, the components listed below had been designated as flight equipment for  $Mariner\ R$  1964.

#### **Equipment List**

Reference designation	Component	Reference designation	Component
	Transponder subsystem	2W1	Coax command antenna
2A1	Transponder i	2W2	Coax command antenna
2A2	Transponder II	2W3	Coax command antenna
2A3	RF amplifiers	2W4	Coax directional antenna
2A4	L-band transformer-rectifier	2W5	Coax directional antenna
2A5	Junction box	2W6	Coax omniantenna
2A6	Circulator and power monitor		Command subsystem
2A9	Filter	3A1	Detector A
2W7	L-band coax	3A2	Detector B and transformer-rectifier
2W8	L-band coax	3A3	Decoder
2W9	L-band coax		Power subsystem
2W10	L-band coax	4A1	Power switching, logic, and oscillator
2W11	L-band coax	4A4	Booster-regulator power amplifier
	Antenna subsystem	446	Power synchronizing supply
2A10	Omniantenna	4A7	Battery charger
2A11	Directional antenna	4A8	400-cps power amplifier
2A12	Rotary joint	4A9	2400-cps power amplifier
2A13	Command antenna	4A11	Solar panel
2A14	Command antenna	4A12	Solar panel
2A15	Power splitter	4A14	Battery

#### Equipment List (Cont'd)

Reference designation	Component	Reference designation	Component	
	Mass moment ballast		Gas regulator thermal shield	
	Temperature transducers		Gas regulator thermal shield cover	
4TT1	Solar panel 4A11		Nitrogen bottle thermal shield (A)	
4TT3	Solar panel 4A12		Nitrogen bottle thermal shield (F)	
4113	Solar panel actuator		Directional antenna yoke	
	Solar panel actuator		Pyrotechnics	
	Central computer and sequencer (CC&S)	8A1	Pyrotechnic control	
£43	Central clock	85Q1	Squib: 4A11 pin puller	
5A1	Launch counter	85Q2	Squib: 4A11 pin puller	
5A2	End counter	85Q3	Squib: 4A11 pin puller	
5A3	Maneuver clock	8SQ5	Squib: 4A12 pin puller	
5A4	Maneuver duration and acceleration integrator	85Q6	Squib: 4A12 pin puller	
5A5		85Q7	Squib: 4A12 pin puller	
5A6	Address register and maneuver output	8SQ8	Squib: radiometer pin puller	
5A7	Input decoder	8SQ10	Squib: fuel valve open	
5A8	CC&S transformer-rectifier	85Q11	Squib: fuel valve shut	
	Data encoding subsystem	85Q12	Squib: oxidizer valve open	
6A1	Low-level comparator, isolation and output amps	85Q13	Squib: nitrogen valve open	
6K1	Commutator decks A, B, C, D	8SQ14	Squib: nitragen valve shut	
6K2	Commutator decks E, F, and signal conditioning	8SQ21	Squib: 4A11 pin puller	
6MT1	Analog-to-digital converter	85Q22	Squib: 4A11 pin puller	
6MT2	Pseudo-noise generator and frequency counter	8\$Q23	Squib: 4A11 pin puller	
6MT3	Transfer register	85Q25	Squib: 4A12 pin puller	
6MT4	Blip registers	85Q26	Squib: 4A12 pin puller	
6TR1	Encoder transformer-rectifier	85Q27	Squib: 4A12 pin puller	
	Attitude control subsystem		Squib: radiometer pin puller	
7A1	Control gyras	8SQ29		
7A2	Control gyro electronics and capacitor	8PP1	Solar panel pin puller	
7A3	Accelerometer and electronics	8PP2	Solar panel pin puller	
7A4	Autopilot amplifier and integrator	8PP3	Solar panel pin puller	
7A5	Jet vane actuator, +Y yaw	8PP5	Solar panel pin puller	
7A6	Jet vane actuator, —Y yaw	8PP6	Solar panel pin puller	
7A7	Jet vane actuator $+ X$ pitch	8PP7	Solar panel pin puller	
7A8	Jet vane actuator —X pitch	8PP8	Solar panel pin puller	
7A10	Long-range Earth sensor	8MS11	4All unfold sensor	
7A11	Antenna drive actuator	8M\$12	4A12 unfold sensor	
7A13	Antenna serva electronics	8MS15	Pyrotechnic arming switch	
7A18	Switching amplifier and logic	8MS16	Pyrotechnic arming switch	
7A19	Celestial relays and power		Spacecraft wiring	
7A20	Nitrogen pressure transducer	9W1	Ring harness	
	Yaw Sun sensor	9W2	L-band harness	
7A25		9W3	Command harness	
7A26	Pitch Sun sensor	9W4	Power switching and logic harness	
7A27	Yaw Sun sensor	9W5	CC&S harness	
7A28	Pitch Sun sensor	1 '	Encoder harness	
7A28	Secondary Sun sensor	9W6		
7A29	Secondary Sun sensor	9W7	Attitude control harness	
7A31	Sun gate sensor	9W8	Main pyrotechnic harness	
7A14	Attitude control gas system	9W9	Power harness	
	Pitch and roll attitude jets and valves	9W10	Motor pyrotechnic harness	
	Pitch and roll attitude jets and valves	9W11	Motor instrumentation harness	
	Yaw attitude jets and valves	9W12	Motor control harness	
	Yaw attitude jets and valves	9W13	Earth sensor and antenna hinge cable	
		9W14	Motion sensor harness	
	Nitrogen bottle and mount	9W20	Science E/Al harness	
	Nitrogen bottle and mount	l i	Science signal harness	
	Nitrogen gas	9W21	-	
	Nitrogen regulator	9W22	Magnetometer cable	
	Tubing, fittings and cabling	9W23	Science power harness	

#### Equipment List (Cont'd)

Reference designation	Component	Reference designation	Component
9W24	Science DCS harness		Case III thermal shield
9W32	Tunnel diode cable		Side thermal shield, bay I
9W30	Radiometer harness		Side thermal shield, bay II
9W31	Radiometer channel 2 harness		Side thermal shield, bay III
9W34	Radiometer channel 1 harness		Side thermal shield, bay IV
9W40	54-v 2400-cps harness		Side thermal shield, bay V
	Propulsion		Side thermal shield, bay VI
	Propellant		Lower thermal shield
	Propellant reserves and holdup		Antenna drive Sun shade
	Nitrogen		Case II louvers
	N <sub>2</sub> O <sub>4</sub> oxidizer		Battery louvers
1	Fuel tank		Structure
1	Nitrogen tank		Omniantenna support
	Nitrogen regulator		Top truss section
1	Frame, shielding and structure		Upper solar panel latch plate
1	Ignition cartridge (dry)		Middle truss section
	Propellant valve		Scan actuator support
	Bladder		Bottom truss section
	Nitrogen filter		Panel 4A11 upper rod end
	Nitrogen blocking valve		Panel 4A12 upper rod end
	Tubing and fittings		Panel 4A11 upper tie link
	Jet vane 1 (Yaw)		Panel 4A12 upper tie link
İ	Jet vane 2 (Yaw)		Panel 4A11 link restrainer
	Jet vane 3 (Pitch)		Panel 4A12 link restrainer
	Jet vane 4 (Pitch)		Mounting bracket 8PP2
	Motor and catalyst		Lower SP tie rod end (A)
10PT1	Propellant tank pressure transducer		Lower SP tie rod end (B)
1 OPT2	Motor nitrogen tank pressure transducer		Lower SP tie rod end (D)
10771	Propellant tank temperature transducer		Lower SP tie rod end (E)
10172	Motor nitrogen tank temperature transducer		Lower SP tie link (A)
	Thermal control		Lower SP tie link (B)
	Upper thermal control shield blanket		Lower SP tie link (D)
	Upper shield support structure		Lower SP tie link (E)
	Upper shield support structure insert		Mounting bracket 8PP1 Mounting bracket 8PP3
	PS&L Awning, bay I	1	•
	Louver housing awning, bay IV		Mounting bracket BPP5
	Particle flux detector Sun shade		Mounting bracket 8PP7
	Case IV, louver 1		Primary hex structure
	Case IV, louver 2		K-brace tube (A)
	Case IV, louver 3		K-brace tube (B)
	Case IV, louver 4		K-brace tube (C)
	Case IV, louver 5 (with mirror)		K-brace tube (D)
i	Case IV, louver 6		Primary Sun sensor spacer (B)
	Case IV, louver 7		Primary Sun sensor spacer (C)
	Case IV, louver 8		Primary Sun sensor spacer (E)
11771	Louver position transducer		Primary Sun sensor spacer (F)
	Temperature transducers		Spacecraft antenna support (A)
11771	Case I		Spacecraft antenna support (B)
11TT2	Case II		Spacecraft antenna support (C)
11773	Case III		Spacecraft antenna support (D)
11774	Case IV		Spacecraft antenna support (E)
11TT5	Case V		Spacecraft antenna support (F)
11TT6	Leg C		Case I
	Case I thermal shield		Case II
į			
	PS&L thermal shield		Case III

#### Equipment List (Cont'd)

Reference lesignation	Component	Reference designation	Component	
	Case IV		Microwave radiometer	
	Case V	21A1	Radiometer dish	
	Case IV gyro cover	21A2	Radiometer scan actuator	
	Cable clamps and standoffs	21 A3	8.5-mm channel	
	Connector bracket (A) 9W14	21A4	33-mm channel	
	Connector bracket (C) 9W13	21A5	Calibration noise source	
	Lower 9W22 bracket	21A6	Power supply	
	Clamp bracket 9W4		Thermal shield	
	Umbilical connector support bracket (B)		Helium vapor magnetometer	
ļ	Umbilical connector support bracket (D)	22A1	Magnetometer sensor	
	LMSD Spin-off reaction bracket (B)	22A2	Magnetometer electronics and power	
	LMSD Spin-off reaction bracket (D)	22A3	Magnetometer electronics	
	Earth sensor vertical damper		Solar plasma experiment	
	Earth sensor horizontal damper	23A1	Plasma electrometer	
	Rotary joint cap	23A2	Plasma programmer	
	Rotary joint torque reaction post	23A3	Plasma sweep and transformer-rectifier	
	Radiometer support bearing	23A4	Shorting plug	
	Solar panel hinge rod end (A)		Particle flux detector	
	Solar panel hinge rod end (D)	25A1	Particle flux detector	
	Solar panel hinge rod end (E)		Anton 213 Sun shield	
	Screws		Infrared radiometer	
	Science	27A1	IR radiameter	
	Data conditioning system	27A1	IR calibrator	
20A1		27A1	Thermal shield	
20A2		// // //		
20A3		40A1	Science power switching	
20A4		4UA1	Science power switching	
20A5		1	Ultraviolet photometer	
20A6		45A1	UV photometer	

## Supplement IV Summary of Mariner R Engineering Change Requirements

This Supplement presents a summary of Mariner R design changes which were effected or approved by means of formal documents known as Engineering Change Requirements (ECR). The tabulation in subsection A includes those changes actually made under ECR directives during the course of Mariner R 1962 design and development. Summarized in subsection B are design

changes for *Mariner R* 1964 which were approved by ECR documentation, but were not necessarily completed before program termination.

The arrangement of entries in each tabulation is based on the numerical sequence of reference designations for the various components affected by the change orders.

#### A. Mariner R 1962 Engineering Change Requirements

Reference designation	Component	ECR No.	Engineering Change Requirement
2A1	Transponder	4825	Change value of components in transponder lowpass-loop filter to make transponder command-modulation output circuit compatible with command input circuit.
		4860	Change modulation sensitivity of transponder to make it compatible with data encoder output level.
2A5	Junction box	4502	Change internal wiring to dc power return so that it leads to chassis ground.

Reference lesignation	Component	ECR No.	Engineering Change Requirement
2A6	Circulator and power monitor	4862	Add choke to reduce RF pickup in directional power monitor when operating on omnicavity with shroud in place.
		5162	Correct callout of connector on drawing after design freeze date.
2A9	L-band filter	4859	Lock tuning slugs by potting to preclude vibration loosening and detuning, which occurred during type approval (TA) testing.
2A10	Omnidirectional antenna	4780	Reinforce supporting buttresses. (A flight-type omniantenna failed by breaking at the buttresses during a spacecraft TA shake test. An antenna reinforced as above survived the same test.)
		4776	Drill holes in cylinder support to allow trapped gases to escape. (During flight- approval (FA) testing of an omniantenna, cracks appeared in the cylinder support under vacuum conditions due to trapped air.)
2A11	Directional antenna	5089	Add damper between antenna and antenna yoke. (Antenna torsional resonance will cause autopilot instability during the midcourse motor firing unless resonance is damped.)
2W3 2W4 2W5 2W6	L-band coax cables		Pot connectors to cables. (Proper clamping to prevent rotation of the cable in the connector was not attained because of the cold flow of Teflon dielectric.)
3A1	Command detector A	4826	Change circuit data sheets to show correct connections of interface with data encoder.
		4830	Adjust detector VCO to 2 $f_s$ nominal to allow for VCO drift and provide zero static phase error during operation.
		4831 4832	Modify gate which provides delay of approximately 5 $\mu$ sec, in order to eliminate digital race problem existing in command detector monitor telemetry measurement.
		4828	Raise subassembly connectors to give extra space needed in each subassembly for internal harness.
3A3	Command transformer- rectifier (T-R)	4827	Reverse keying of connector called out in drawing, in order to correct documentation.
4A1	Power switching and logic	4918	Remove isolation diodes in series with solar panels to pick up needed power.
	(PS&L)	5090	Counterbore 4 attach holes to facilitate fabrication of parts.
		5128	Add thermal shield for proper thermal control.
		4921	Modify battery drain-measurement circuit to improve accuracy.
4A4	Booster regulator	4907	Isolate telemetry temperature transducer from chassis to forestall shorting of transducer.
		4911	Exchange TI 2N336 transistors for GE components having needed characteristics.
4A8	400-cps power amplifier	4902	Change connections to convert from 3-phase to 1-phase operation when gyros are off.
		4911	Exchange relay for one with higher contact rating to eliminate arcing problems.
4A11	Solar panel	4905	Change connections to solar panel to allow checkout and to change shield ground.
		4913	Connect reference cells in redundant manner used for switching logic in event of sharing mode.
		5030	Add solar sail to balance solar-pressure torques.

Reference designation	Component	ECR No.	Engineering Change Requirement
4A12	Solar panel	4905	Change connections to solar panel to allow checkout and to change shield ground.
		4919	Increase solar panel area to preclude power sharing.
		5033	Change latch plates to accommodate countersunk screws required for clearance of panel extension.
4A14	Battery	4920	Add short-circuit protection of battery monitor routed through umbilical connector.
		4926	Add diode for isolation of ground support equipment (GSE) connection to battery.
		4927 4928	Reduce energy-storage capacity to 60% of original Mariner A battery design. (Mariner R reduced power requirements, as compared with Mariner A, permit reduction in battery capacity and weight.)
5A1	Central clock	4953	Change value of capacitor to shorten marginal pulsewidth.
		4955	Remove printed-circuit strap and replace with jumper wire to eliminate capacitance introduced at sensitive flip-flop.
5A3	End counter	4515	Change value of capacitor to clean up event blip leading to event counter in data encoder.
5A7	Input decoder	4951	Change source voltage on interface circuit to make interface document consistent with mechanization.
5A8	Central computer and sequencer (CC&S) T-R	4952	Change diodes to components having higher peak-inverse-voltage (PIV) rating, consistent with circuit operation.
		4954	Add relay for backup command of solar panel erection and radiometer unlatch, Sun acquisition, and Earth acquisition.
		4956	Add diode for protection from external shorts.
6K1	Commutator decks A, B, C, D	4854	Change range of AGC coarse measurement to give more informative data.
6MT2	Pseudo-noise (PN) generator and frequency counter	4810	Delay leading edge of pulses sent to data conditioning system (DCS) to eliminate incompatibility.
6MT3			, ,
6MT4	Blip register	4807	Interchange two wires to correct inadvertent transposition.
		4814	Change value of input-filter components to give reliable event counter triggering.
		4815	Add capacitor to filter noise introduced on command lines into data encoder.
		4819	Delete events and add filtering to eliminate excessively noisy signals.
		4824	Remove components and add jumpers to eliminate incompatibility with command detector monitor and command events.
		5104	Change inputs from pyrotechnics to eliminate noise problems in event registers.
7A1	Control gyros	4526	Add two current-limiting resistors in spin-motor lines to limit peak-current surges at gyro turn-on.
7A2	Control gyro electronics	4883	Increase scale factor of telemetry output for pitch- and yaw-rate measurements to increase sensitivity during acquisition.
		4878	Change type of transistors to eliminate variations in VCO.

Reference designation	Component	ECR No.	Engineering Change Requirement		
7A4	Autopilot amplifier integrator	4886 4893	Remove filters and change yaw-autopilot gain to prevent structural resonances causing autopilot instability.		
7A10	Long-range Earth sensor	4877 4881	Change diode type to decrease noise sensitivity.		
		4880	Change screw-type cover to eliminate interference.		
		4882	Secure internal-lens-element locking rings with Tuf-on varnish to provide for proper mounting.		
		4887	Correct prints to conform to flight units.		
		4987	Cut slot in baffle-box flange to eliminate interference with Earth seeker.		
7A13	Antenna servo electronics	4879	Add capacitor at input of drive amplifier to eliminate power consumption and actuator noise at null.		
		4988	Change capacitor value to eliminate power consumption of update servo during cruise portion of flight.		
		4902	Furnish signal to PS&L to convert 400-cps 3-phase operation to 1-phase when gyros are off.		
7A19	Celestial relays and power	4889	Add relay to provide switching of attitude control power at load to eliminate power transient and enable data encoder to remain in lock when AC5A is set.		
7A25 7A26 7A27 7A28 7A31	Primary Sun sensors and Sun gate	4890	Increase thickness of terminal board to prevent loosening of terminals during soldering process at installation of sensors on spacecraft.		
7A29	Secondary Sun sensors	4884	Change reference designations. (Ranger reference designations are hot-sto		
7A30	Secondary Sun sensor	4892	Change Sun sensor to accommodate increase in solar panel area.		
	Attitude control gas system	4891	Add temperature transducer to insure accurate temperature measurements during charging operations and leak testing.		
		5082	Relocate plumbing in area of support C to prevent interference when hex-box 3 is folded down.		
		4528	Add bushing support to top bottle-bracket attachment. (Spare unit failed in shipment to AMR.)		
8A1	Pyrotechnic control	5101	Correct circuit data sheets to show updated and omitted signals.		
		5104	Change circuit to give noise-free signals to data encoder event counter.		
8MS1 8MS2 8MS5 8MS6 8MS7 8MS9	Motion sensors	5102	Provide two conductors from parallel-pin-puller motion-sensing switches through separation connectors to permit blockhouse monitoring.		
9W1	Ring harness	4522	Change connection of wire to prevent GSE umbilical-shield return from mingling with encoder-shield return, and to avoid coupling interference fields into spacecraft		

Reference designation	Component	ECR No.	Engineering Change Requirement
9W1 (cont'd)	Ring harness	4516	Interpose two wires to put RTC-2 and RTC-3 on proper attitude control channels.
		4524	Change gender of separation connectors to forestall possibility of pins shorting together during separation.
		4551	Add connector between ring harness and motion-sensor harness to ease difficult fabrication problem.
		4559	Interchange chassis ground connections of battery to eliminate incompatibility between ring harness and battery.
		4562	Interchange attitude control $(A/C)$ nitrogen-pressure excitation and $A/C$ nitrogen-pressure signal for correct functioning of nitrogen transducer.
ļ		4735	Add wire and eliminate connection so that cruise science is turned on and off by RTC-8 and RTC-10, rather than by battery-sharing logic.
		4812	Provide shield ground for Earth sensor and plasma temperature transducers which was eliminated when plasma experiment was insulated.
		4876	Add hinge angle command lines through umbilical to attitude control to enable hinge reference angle to be set properly prior to launch.
		4902	Change connection to accommodate switching between 400-cps 1-phase and
		4912 4913	3-phase operation.
		4903	Add who as possible to the state of the stat
		4906	Add wire to permit turning off science when power sharing occurs.
		4916	Add shielding to wires from sensing solar cells to eliminate noise-pickup problem.  Change value of 2400-cps monitor isolation resistors to decrease susceptibility to capacitive change of catenary cable.
		4954	Add two wires to accommodate addition of two backup commands for solar pane erection and radiometer unlatch, Sun acquisition, and Earth acquisition.
		5104	Change connection of wires to accommodate change in event circuitry of pyrotechnic control subassembly.
		4805	Add shielded wire to data encoder umbilical function to provide for event counter reset.
		4560	Change from Deutsch to Bendix connectors to prevent poor pin retention from becoming an insurmountable problem.
		4910	Change connection of battery charge line to provide for proper isolation.
		4915	Add two wires in ring harness to provide for hardline monitoring of battery temperature on pad.
9W2	L-band harness	4555	Interpose two wires to correct documentation error.
		4560	Change from Deutsch to Bendix connector to prevent poor pin retention from becoming an insurmountable problem.
		4874 4852	Interpose two wires to correct error.
9W3	Command harness	4824	Change connections in harness to accommodate correction of incompatibility with command detector monitor and command events.
		4560	Change from Deutsch to Bendix connector to prevent poor pin retention from becoming an insurmountable problem.

Reference designation	Component	ECR No.	Engineering Change Requirement
9W4	Power switching and logic harness	4905	Change wire routing to accommodate changes in solar panel which allow checkout.
9W5	CC&S harness	4756	Change wire routing to accommodate changes made to solve interface problem between DCS and CC&S.
		4954	Add wiring to accommodate addition of Earth acquisition, Sun acquisition, and solar panel erection backup commands.
		4560	Change from Deutsch to Bendix connectors to prevent poor pin retention from becoming an insurmountable problem.
9W6	Encoder harness	4576	Change shield connections to eliminate ground loop between ac shield return and signal return.
		4809	Redesign and refabricate encoder harness to accommodate relayout of modules, necessary because of interference between subassemblies.
		4810	Add wire to accommodate change which corrects data encoder incompatibility with DCS.
		4917	Delete and add wire to put battery current-drain measurement on high-rate deck.
		4805	Add shielded wire to provide event counter resetting from blockhouse.
		4804	Change routing of wire to provide amplification of frame sync.
		4802 4803	Change routing of several wires to eliminate loading and crosstalk.
		4560	Change from Deutsch to Bendix connectors to prevent poor pin retention from becoming an insurmountable problem.
9W7	Attitude control harness	4574	Delete tiedown of shield to eliminate ground loop between ac shield return and signal return.
		4876	Add two wires to provide hinge angle commands from blockhouse.
		4560	Change from Deutsch to Bendix connectors to prevent poor pin retention from becoming an insurmountable problem.
9W13	Earth sensor and antenna hinge cable	4561	Replace irradiated-polyolefin-insulated wire with Teflon-insulated wire. (Tests in- dicate irradiated polyolefin wire will become stiff when subjected to high temperature.)
9W20	Science case harness	4630	Remove spare wire as potential noise source.
		4650	Change nomenclature of signal callouts for correct description of circuit function.
		4728	Add wires to provide capability of resetting science on relay.
		4753	Change pin allocations to correct interconnection problem which arose during packaging of DCS.
		4755	Change shield and wire connections to eliminate ground loop and to distribute science on-off function.
		4757	Change connection of two wires to correct interface problem between CC&S and DCS.
		4976	Change function callout of wires running between radiometer scan actuator and DCS.
		4560	Change from Deutsch to Bendix connectors to prevent poor pin retention from becoming an insurmountable problem.

Reference designation	Component	ECR No.	Engineering Change Requirement
9W24	Science DCS harness	4755	Change shield and wire connections to eliminate ground loop and to distribute science on-off function.
9W27 9W29	Radiometer cables	4578	Add cable to accommodate corrections for temperature-drift problems.
9W30	Radiometer harness	4576	Add ground wire to provide chassis ground.
		4577	Add wires and change connections to accommodate corrections for temperature-drift problems.
9W31 9W34	Radiometer channels 1 and 2 harness	4552	Add coaxial cable to allow easier fabrication of radiometer harness.
	Midcourse motor	5151	Increase propellant loading from 8.5 to 9.4 lb to increase midcourse correction capability to 45 m/sec.
	Temperature control	5086	Install Sun shade to shade particle flux detector tubes.
20A1	Science power switching	4729	Correct drawing to indicate proper fabrication step.
		4732	Add capacitors to eliminate noise pulses generated in scan actuator.
		4731	Change internal connection to permit return to normal cruise operation after encounter sequence.
		4733	Add T-R unit and remove capacitors to give proper radiometer scan actuator control with noise interference present.
		4735	Add relay to give command capability for turning cruise science on and off.
		4736	Change internal connection to prevent switching transients from welding relay contacts.
20A21	Data conditioning system (DCS)	4756 4757	Connect jumper to solve interface problem between DCS and CC&S.
		4762	Increase collector voltage from 6 to 12-v in magnetometer calibrate pulse inverters to overcome marginal operation.
		4976	Add three planetary-scan control functions to correct documentation.
20A22	Data conditioning system	4527	Add noise filters to radiometer-scan limit-switch lines to decrease noise which caused erroneous scan-direction-change command.
		4758	Add resistance and diodes to isolate cable capacitance from DCS radiometer- scan-control direction flip-flop.
		4759	Add flip-flop and wiring changes to allow longer integration of radiometer.
		4760	Make wiring change to solve clockwise and counterclockwise (CW-CCW) scan- control problem.
		4763	Connect diodes to insure proper state of CW-CCW relays in science power switching at power-on.
		4764	Change wiring connections to correct quality control problem.
		4767	Remove resistor to provide more base drive to reset inverter.

Reference designation	Component	ECR No.	Engineering Change Requirement
20A24	Data conditioning system	4759	Add flip-flop to provide longer inhibit of scan-control circuitry during radiometer calibration.
		4761	Disconnect one flip-flop and two diodes to decrease possibility of inadvertent radiometer calibrations at start of slow scan.
		4762	Increase base drive to inverter input that generates magnetometer pulse 2 (present drive is marginal).
		4763	Remove resistors from CW-CCW relay-driven collectors to decrease noise sensitivity.
		4764	Change wiring connections to correct quality control problem.
		4765	Change internal wiring to provide for proper logic condition at power turnon.
20A25	Data conditioning system	4766	Install pulse-shaping amplifier to provide properly shaped 2400-cps pulse used in counting circuitry.
21A1	Microwave radiometer dish	4579	Add RF shielding to decrease interference from 960-mc output from L-band.
		5087	Add RF transparent guide on front of radiometer to insure that shroud will not hang up on reference horn at shroud ejection.
21A2	Radiometer scan actuator	4627	Invert two wires to correct drawing error.
		4976	Add functions to correct documentation.
		4980	Redesign switch lever and spring to prevent repeated damage such as that which has occurred during testing.
22A2	Magnetometer electronics and power	4603	Add two diodes to provide isolation of circuits from DCS.
		4616	Delete wire to eliminate unnecessary function.
		4648	Add filter to eliminate reflected ringing on 2400-cps line.
		4649	Remove diodes to stop charging of capacitors.
23A1	Plasma electrometer	4677	Change position of three transistors to eliminate attenuation.
		4678	Increase current through discriminator reference diode to correct marginal operation.
		4679	Change transistors in demodulator to units less susceptible to high-voltage-spike damage.
23A2	Plasma programmer	4678	Regulate supply voltage to reduce low-frequency-modulation effects from 2400-cps power.
		4680	Change value of capacitors to correct marginal condition.
		4737	Change regulator circuitry to preclude damage of voltage transients.
25A1	Particle flux detector	4631	Open chassis ground connection to eliminate ground loop.
		4633	Change value of output resistor to correct impedance mismatch.
		4626	Apply proper thermal-control-paint pattern for better temperature control.
27A1	Infrared (IR) radiometer	4702	Install mounting stud and provide access hole to simplify removal and installation of IR radiometer.

Reference designation	Component	ECR No.	Engineering Change Requirement
27A1 (cont'd)	Infrared radiometer	4703	Change component values to decrease DCS loading and to obtain factor-of-2 improvement in gain.
		4706	Add magnesium strip to effect hermetic seal.
27A2	Infrared radiometer calibrator	4701	Add calibration plate to provide for calibration of IR radiometer at planet encounter.
	Structures	4548	Provide screwdriver access hole in top of shield above fill port in attitude control gas system.
		4979	Provide proper ground by attaching grounding strap from antenna yoke to space- craft frame.
		4985	Eliminate taper and center joint in drive-output yoke assembly to decrease amplifi- cation of vibration to Earth sensor.
***		5026 5027 5028	Rework solar panel structure to eliminate interferences and provide attachment for cable harness.
		5076	Move yaw-jet mounting brackets to prevent gases from impinging on top thermal shield and lower solar panel pin pullers.
		5077	Relocate pyrotechnic arming switches to prevent tumbling of spacecraft at separation.
		5078 5079	Replace magnetic Keensert lock pins and bearings with nonmagnetic lock pins and bearings to meet magnetic-field requirements.
		5080	Replace rivets at top solar panel tie with close-tolerance bolts. (One rivet failed on structural test model during TA test.)
		5081	Modify yaw-jet mount to eliminate interference.
		5083	Install retainer on top solar panel tie link to prevent link from dropping during periods when solar panels are extended.
		5084 5085	Replace magnetic nuts with non-magnetic nuts to meet magnetic-field requirements.
		5088	Modify solar panel actuator rod end to meet autopilot resonant-frequency requirements.
		5089	Add damper between antenna and antenna yoke to meet autopilot resonant- frequency requirements.
		5091	Stiffen upper solar panel support plate on superstructure. (Test plate failed during TA shake test with larger panel.)
		5092	Modify Sun sensor mounting bracket to provide proper view angle with solar sail in place.
		5126 5127	Modify packaging drawing to correct errors and incorporate design changes.

## B. Mariner R 1964 Engineering Change Requirements

Reference designation	Component	ECR No.	Engineering Change Requirement
2A1	Transponder I	3216	Change transistor types in amplitude detector to correct nonlinearity in AGC channel.
		3217	Change crystal filter to correct phase distortion of command modulation.
		3219	Change transistor types to obtain 2-db improvement in noise figure.
		3220	Change resistor value to handle data encoder signal input of 2 rad/v.
2A4	L-band transformer- rectifier	3221	Modify transformer to provide lower filament voltage in order to obtain longer tube life.
3A1	Command detector A	4840	Change command detector monitor out-of-lock circuitry to read "in-lock", rather than "out-of-lock".
		4841	Shift command subcarrier +90 deg in phase to eliminate spectral interference between sync and command subcarriers which can cause false lock points.
		4844	Use improved modules developed for Mariner B to take advantage of production- line experience and increased component reliability.
3A2	Command detector B	4842	Redesign command detector monitor VCO telemetry circuitry to eliminate digital race problems associated with Mariner R 1962.
		4844	Use improved modules developed for Mariner B to take advantage of production- line experience and increased component reliability.
3A3	Command transformer- rectifier	4839	Modify power transformer to increase efficiency of transformer-rectifier.
3A4	Command decoder	4843	Change type of RTC-11 switch for needed backup command function.
		4844	Use improved modules developed for Mariner B to take advantage of production- line experience and increased component reliability.
		4848	Change command decoder to issue additional event pulse indicating proper reception of quantitative command.
4A1	Power switching and logic	4937	Repackage module to incorporate following changes: replace power transistors in booster oscillator with new high-speed STC transistors to improve efficiency; redesign booster oscillator circuit to increase efficiency; change input voltage to booster oscillator from 52 v to 20 v $\pm$ 1% for improved stability; introduce RTC circuit to disconnect battery from charger; remove one panel-voltage measurement circuit (the previous two voltage measurements were redundant); replace kinetic switch with Ranger switch, in order to reduce weight and magnetic fields.
		4941	Replace Cannon D connectors with Bendix pygmy connectors to meet handling requirements.
4A4	Booster regulator	4941	Replace Cannon D connectors with Bendix pygmy connectors to meet handling requirements.
		4936	Replace power transistors in amplifier stage with new high-speed STC transistors to improve efficiency. Introduce two compensating networks for increased regulator loop stability.
4A6	Power synchronizer	4935	Replace power transistors in booster oscillator with new high speed STC transistors to improve efficiency. Replace 2N-333 and 2N-336 transistors in digital circuits with Hi-Rel 2N-910 and approved 2N-912 units. Introduce 38.4-kc $\pm$ 1% oscillator and switching circuitry to replace CC&S signal in event of failure.

Reference designation	Component	ECR No.	Engineering Change Requirement
<b>4</b> A8	400-cps power amplifier	4938	Replace power transistors in amplifier stage with new high speed STC transistors to improve efficiency. Remove one stage of amplification (preamplifier) to increase reliability and reduce weight. Modify output transformers for delta-output connection. Remove capacitor switching circuit required for single-phase operation.
4A9	2400-cps power amplifier	4934	Replace power transistors in amplifier stage with high speed STC transistors to improve efficiency.
4A11 4A12	Solar panel	4924	Supply two solar panels, each having 15 ft <sup>2</sup> total area for Mariner R 1964. (The increase in surface area was necessary to provide the solar power required with (a) more design freedom, (b) more redundancy, (c) slight relaxation of cell efficiency, and (d) restoration of equal mass to the pair of solar panels, thus alleviating the autopilot problem.
		4925	Allot two telemetry channels for evaluation of solar cell characteristics: (1) solar cell short-circuit measurements (0.3 v dc); and (2) solar cell intensity measurements (0–100 mv).
		4939	Install three diodes on each panel to achieve isolation between parallel-connected sections, permitting loss of one section without effect on capability of remaining two sections.
4A14	Battery	4933	Introduce RTC to disconnect battery from flight charger, in order to: (1) remove loading on spacecraft power system which could be caused by short in battery; (2) reduce probability of battery damage caused by overcharging of remaining cells if short develops in one cell; and (3) remove long-cruise-time trickle-charge condition, which may tend to cause cell gassing.
		4940	Repackage battery cells in right-side-up position to decrease possibility of shorts.
5A1	CC&S central clock	4775	Provide 19.2-kc sync signal to DCS to permit science operation at 33-1/3-bps data rate.
		4958	Correct documentation to show removal of unnecessary resistors.
		4967	Change diode types (original types are no longer available).
Ì		4968	Change resistor values to improve 38.4-kc output over voltage and temperature limits.
		4969	Change resistor values to improve magnetic-core driver waveforms over voltage and temperature limits.
		4970	Remove one resistor, two capacitors, and one diode to eliminate unnecessary regulation.
		4971	Change pulse circuit to obtain better pulse width.
		5105	Change excitation for pyrotechnic commands from direct battery power to cold side of arming switch to preclude issuance of inadvertent pyrotechnic commands.
		5226	Add resistor to oscillator circuits to provide better stability through temperature limits and changes in component parameters.
		5227	Change resistors to components of stable type.
5A2	Launch counter	4959	Change relays to components of more reliable type.
		4961	Mechanize present Agena separation clamps to include functions of present launch clamp. This change removes the clamp on CC&S relays at time of separation, not at successful activation of relay PT3A.
		5227	Change resistors to components of stable type.

Reference designation	Component	ECR No.	Engineering Change Requirement
5 <b>A</b> 3	End counter	4960	Change relay to component of more reliable type.
		4963	Add test points to provide accessibility to critical circuits.
		4964	Modify encounter update circuit to preclude excessive loading of counter B+.
		5227	Change resistor to component of stable type.
5A4	Maneuver clock	4962	Change circuit design to eliminate unnecessary components.
		5227	Change resistor to component of stable type.
5A6	Address register and maneuver output	4966	Remove unused terminals to eliminate interference with wire bundles.
5A7	Input decoder	4965	Remove unused terminals to eliminate interference with wire bundles.
5A8	CC&S transformer-rectifier	4972	Add resistor and diodes to eliminate past problem of reverse current through tantalum capacitors in backup circuit.
		4974	Add relay to provide isolation for lines to GSE.
6A1	Low-level comparator, isolation and output amplifier	5308	Replace complementary-pair transistors with FSP15 units to provide better parameter matching over wide temperature ranges.
6K1	Commutator decks A, B, C, D	3223	Rearrange commutation to comply with new telemetry-channel assignment.
6K2	Commutator decks E, F, and signal conditioning	4823	Replace present bridge technique with constant-current technique for transducer excitation, in order to eliminate possibility of short to ground in one transducer line causing loss of all temperature measurement.
6MT1	Analog-to-digital converter	5310	Derive reset pulse from collectors of blocking oscillator, rather than from secondary of transformer, to provide harder drive.
6MT2	Pseudo-noise (PN) generator and frequency counter	5176	Add circuitry to prohibit an all-zero condition from locking up PN generator.
		5179	Add double-ended limiter to prevent noise from riding clock pulses, and to assure clock pulses despite power-amplitude variations.
		5193	Add capability to home encoder commutator by GSE in Mode II operation.
		5302	Change encoder to provide engineering and science readout at 8 and 33 bps.
6MT3	Transfer register	5177	Eliminate AND gating on bit sync which clocks transfer register, in order to clear transfer register of any "ones" introduced by noise pulses.
		5182	Eliminate multiple-layer diode-gating logic in event register (present design is marginal in operation).
6MT4	Event registers	5181	Modify input circuits of event counters to eliminate present noise susceptibility.
		5184	Modify command detector monitor input to preclude double triggering and, hence, incorrect VCO frequency information.
		3224	Eliminate chopper input transformer of low-level amplifier, and also eliminate some series tantalum capacitors, by changing to direct-coupled pairs. (This change simplifies the circuit and removes a series critical item that is difficult to build.)

Reference designation	Component	ECR No.	Engineering Change Requirement
6TR1	Encoder transformer- rectifier	5308	Replace complementary-pair transistors with FSP15 units to provide better parameter matching over wide temperature ranges.
7A1	Attitude control gyros	4894	Relocate resistors for proper installation of current-limiting resistors. Change shield- ing tie point to provide better shielding.
		4899	Use redundant printed circuitry on both sides of board.
7A2	Control gyros electronics and capacitor	4899	Use redundant printed circuitry on both sides of board.
7A3	Accelerometer and electronics	4897	Add two resistors and ground proof-mass assembly to eliminate necessity for radioactive static-discharge material.
		4895	Add capacitor and resistors to improve operation at high temperature.
7A4	Autopilot amplifier and integrator	4899	Use redundant printed circuitry on both sides of board.
7A11	Antenna drive actuator	4896	Modify present actuator so as to produce an "integrated" unit, to eliminate operational problems.
7A13	Antenna servo electronics	4899	Use redundant printed circuitry on both sides of board.
7A18	Switching amplifier and logic	4899	Use redundant printed circuitry on both sides of board.
7A19	Celestial relays and power	4899	Use redundant printed circuitry on both sides of board.
7A29	Secondary Sun sensor	4900	Return configuration of Sun sensors to that used prior to addition of Mariner 2 solar panel extension.
8A1	Pyrotechnic control	5106	Change instrumentation circuitry to permit current monitoring of all primary bridgewires.
9W1	Ring harness	5105	Change wiring to permit excitation of CC&S relays commanding pyrotechnic events to come from arming switch, rather than directly from battery.
		5278	Add shielding to 26-v 400-cps science power to reduce effects of pickup from 400-cps line.
9W5	CC&S harness	5105	Change wiring to permit excitation of CC&S relays commanding pyrotechnic events to come from arming switch, rather than directly from battery.
		4974	Change wiring to permit isolation of direct-access functions.
9W10	Motor pyrotechnic harness	5156	Relocate connector to eliminate prior "blind" hookup.
9W20	Science Electronic Assembly I (E/AI) harness	5278	Add shielding to 26-v 400-cps science power to reduce effects of pickup from 400-cps line.
9W22	Magnetometer cable	5252	Change cable to accommodate new magnetometer.
9W23	Science power harness	4746	Delete wires furnishing 400-cps power to IR radiometer (requirement no longer exists).
	Midcourse propulsion	5152	Replace present fuel tank manifold-to-tank attachment to allow incorporation of metal crush gasket. Replace O-ring seals with metallic seals.
		5153	Delete visual pressure "dime" gauge to eliminate a port and seal.

Reference designation	Component	ECR No.	Engineering Change Requirement
	Midcourse propulsion (Cont'd)	5154	Replace present pneumatic-pressure regulator with JPL-designed regulator for significant improvement of regulation, repeatability, and reliability.
		5155	Replace present oxidizer-start slug cartridge with redesigned start cartridge to eliminate loading problems.
		5156	Relocate connectors to eliminate prior "blind" hookup.
11TT2 11TT3 11TT5	Temperature transducer assemblies	5098	Remount temperature transducer connectors on hex boxes 2, 3, and 5 to allow connectors to be easily inspected and connected, and to eliminate wire bends near connector.
20A1	Data conditioning system	4638	Lengthen particle flux sample time to eliminate questionable portions of data.
	(DCS) I	4709	Include temperature measurement of additional IR radiometer calibrator plate to give calibration data during planet encounter.
		4769	Repackage DCS to alleviate present packaging congestion.
		4770	Install male connectors on all DCS trays to preclude previous manufacturing and operational problems.
		4773	Remove 7-ones eliminator from DCS logic to eliminate unnecessary complications.
i		4774	Isolate all GSE connections. Modify data program to provide for more data acquisition at planet and to accommodate new complement of experiments.
}		5270	Isolate all GSE connections. Modify data program to provide for more data acquisition at planet and to accommodate new complement of experiments.
		4775	Increase DCS analog-to-digital clock frequency, and provide for digital phased clock to allow operation of DCS at 33 bps.
		5260	Add wire between DCS and scan actuator to establish contacts of form C type to reduce noise fed into DCS.
		4586	Change calibration sequence to make radiometer calibration more meaningful.
20A2	DCS II	4769	Repackage DCS to alleviate present packaging congestion.
		4770	Install male connectors on all DCS trays to preclude previous manufacturing and operational problems.
20A3	DCS III	4769	Repackage DCS to alleviate present packaging congestion.
		4770	Install male connectors on all DCS trays to preclude previous manufacturing and operational problems.
20A4	DCS IV	4769	Repackage DCS to alleviate present packaging congestion.
		4770	Install male connectors on all DCS trays to preclude previous manufacturing and operational problems.
20A5	DCS V	4769	Repackage DCS to alleviate present packaging congestion.
		4770	Install male connectors on all DCS trays to preclude previous manufacturing and operational problems.
20A6	DCS transformer-rectifier	4769	Repackage DCS to alleviate present packaging congestion.
		4770	Install male connectors on all DCS trays to preclude previous manufacturing and operational problems.
		1	<u>I</u>

Reference designation	Component	ECR No.	Engineering Change Requirement
20A6 (cont'd)	DCS transformer-rectifier	4771	Install current-limiting circuit to reduce noise caused by current surge at turn-on.
(com a)		4772	Increase 2400-cps power supplied to DCS transformer-rectifier to increase noise margins and provide additional required logic.
21A1	Microwave radiometer dish	4582	Change operating wavelengths from 19 and 13.5 mm to 33 and 8.5 mm.
		4584	Redesign diplexer-feed assembly to eliminate previous cracking problem.
		4585	Redesign crystal-detector mount to reduce RF pickup and interference.
		4588	Increase off-planet time to 80 sec at reversal of scan to obtain a true baseline reading.
21A2	Radiometer scan actuator	4981	Decrease fast-scan speed. Increase output torque. Replace differential with planetary system. Replace Klixon limit switches with Honeywell microswitches. Replace output shaft universal with metal flexure. Replace output bearings with Teflon compound sleeve bearings. (All these changes are scheduled to eliminate problems previously encountered.)
		4982	Redesign swivel joint to provide more room for assembling radiometer on space- craft and to eliminate bearing end play.
		4989	Replace 14-pin plugs with 19-pin plugs to accommodate additional motor return and switch leads.
21 A 3	Radiometer 8.5-mm channel	4589	Redesign electronics to reduce phase shifts and gain fluctuations with temperature.
21 A4	Radiometer 33-mm channel	4589	Redesign electronics to reduce phase shifts and gain fluctuations with temperature.
21A6	Radiometer power supply	4589	Redesign electronics to reduce phase shifts and gain fluctuations with temperature.
22A1	Magnetometer sensor	5254	Change mounting bracket to accommodate change in magnetometer type.
22A2	Magnetometer electronics and power	5251 5253	Change electronics to conform to change in magnetometer type.  Change magnetometer outputs to DCS to correspond to change in magnetometer type.
22A3	Magnetometer electronics	5251 5253	Change electronics to conform to change in magnetometer type.  Change magnetometer outputs to DCS to conform to change in magnetometer type.
23A1	Solar plasma electrometer	5259	Redesign instrument electronics to provide better stability and accuracy.
23A2	Solar plasma programmer	5257	Change output to DCS to provide scale-factor readout and plasma-instrument deflection voltage, permitting better correlation of collected data.
		5259	Redesign instrument electronics to provide better stability and accuracy.
23A3	Plasma sweep and transformer-rectifier	5259	Redesign instrument electronics to provide better stability and accuracy.
25A1	Particle flux detector	4635	Change transistor types to give better thermal margins.
		4636	Provide for protection against overvoltage and transients in transformer-rectifier.
27A1	Infrared radiometer	4709 5266	Add calibration plate to obtain calibration data at encounter.
		5262	Make circuitry modifications to allow operation at 15 v, rather than 12 v, because of microwave radiometer changes.

Reference designation	Component	ECR No.	Engineering Change Requirement
27A1	Infrared radiometer	5263	Change basic power source from 400-cps to 2400-cps for better utilization of power.
(cont'd)		5264	Provide for one viewing operation, rather than two, and temperature-compensate the detector-bias supply to minimize errors caused by temperature variations and differentials.
		5265	Insulate preamplifier to eliminate hum and noise pickup.
27A2	Infrared radiometer calibration	5261	Relocate calibrator plate to accommodate different field of view.
40A1	Science power switching	4738	Replace IN459A diodes with redundancy diode assemblies for increased reliability.
		4739	Eliminate tantalum capacitors in series with coils of DCS-controlled relays to eliminate series elements.
		4740	Switch power with two relays, rather than one, to decrease electrical stress.
		4741	Change relay types for wider voltage and temperature limits.
		4742	Remove transformer-rectifier unit and utilize dc power from DCS to operate scan- reversal relays for proper placement of transformer-rectifier.
		4743	Replace capacitor with Hi-Rel type to meet program requirements.
		4744	Remove wiring which supplies power to infrared radiometer. (This wiring is no longer required.)
		4745	Change setting of relays to allow science to turn on following gyro turnoff at completion of initial Sun acquisition.
		4749	Connect contacts 1 and 2 of relay K1 to allow cruise-science operation during calibration periods.
		4749	Eliminate unnecessary series diodes.
		4750	Add two relays to permit application of power to ultraviolet instrument during calibration and encounter.
45A1	Ultraviolet (UV) photometer	5267	Add UV photometer to complement of experiments.
		5269	Add UV photometer to complement of experiments.
	Structures	4984	Change support C to accommodate Ranger 9 integrated antenna actuator.
		5093	Eliminate locking feature in all nut plates and Keenserts; change to bolts with locking feature to provide for easier replacement of worn locking.
		5094	Modify solar panel mounting details to correct deficiencies.
		5095	Relocate cable trough stiffener to increase connector clearance.
		5096	Relocate solar panel microswitch to clear solar panel hinge boss.

#### Supplement V

#### Summary of Mariner R-3 Design-Evaluation Tests

The Mariner R design-evaluation test series (DEV) was initiated to provide a rigorous analysis of system operation for use in the projected Mariner R 1964 program. Because of the stringent time limitations, such a detailed analysis had not been possible prior to the launching of Mariner 2.

The spacecraft employed for the DEV tests was the *Mariner R-3*, the unit assembled from the spare parts for *Mariners 1* and 2. Tests were conducted throughout the fall of 1962 and up to the date of project cancellation in January 1963. Tests in those areas applicable to other programs were continued through February of that year.

As noted in Section VIII-C, Volume I, of this Report, the overall objective of the DEV program was to obtain a maximum amount of data with minimum test effort. Among the specific objectives were: (1) to improve understanding of system interactions, (2) to investigate known or suspected spacecraft problems, (3) to explore general areas of strength and weakness in the spacecraft design, and (4) to study system performance within the dynamic working range.

This Supplement presents, in tabular form, brief summaries of the results obtained in the 18 tests performed in the DEV program.

#### Test Program Summary

**DEV Test 1. Primary-Power Voltage Variation** 

#### Objectives and scope

The performance degradation of each subsystem shall be evaluated as the 2400-cps voltage is decreased to 42.5 v rms and then increased to 57.5 v rms. If excessive degradation occurs in any subsystem, the voltage level at which degradation occurs shall be determined.

A spacecraft operational sequence shall be synthesized which will assure the exercising of all spacecraft elements. The control circuit in the power subsystem, which establishes the voltage level, shall be adjusted as required to supply the voltages designated above. A minimum period of time shall be allowed for each subsystem group to evaluate the extent of degradation in each mode of spacecraft operation.

#### Results and recommendations

The data recorded in this test indicate that all subsystems, with the exception of the transponder, will accommodate wide variations of primary-power voltage. This suggests the possibility of opening the regulation tolerance on the booster regulator which, in turn, would permit circuit simplification and a reduction in the parts count.

It is suggested, therefore, that the feasibility of introducing some regulation into the transponder transformer-rectifier unit be investigated. This change would not only permit simplification of the booster regulator, but would also provide toleration for some degradation of booster regulator performance.

If the battery voltage were made to fall within the range of 42 to 57 v, rather than the nominal 28 v, the seriousness of a booster regulator failure would be minimized.

**DEV Test 2. Data Conditioning System Cyclic Calibration Noise** 

#### Objectives and scope Results and recommendations A test shall be performed to determine the cause of In this test, the cause of the Mariner 2 unscheduled unscheduled calibrations in the data conditioning sysscience calibrations was not determined, but a number of areas of suspicion were eliminated. tem. The transient monitor developed at JPL will be used It is recommended that the Science Data Group to determine the presence and magnitude of transients. propose additional tests, designed to provide more If the malfunction experienced on Mariner 2 cannot be positive resolution of the calibration problem. duplicated, the noise content shall be increased to determine the level at which failure occurs.

#### DEV Test 3. 2.4-kc Frequency Variation

#### Objectives and scope

# The performance degradation of each subsystem shall be evaluated as the 2400-cps primary-power frequency is decreased to 1920 cps and increased to 2880 cps. If excessive degradation is observed in any subsystem, the frequency at which it occurs shall be determined. Also, the free-running frequency of the power subsystem shall be determined when the 38.4-kc power sync is disconnected.

#### Results and recommendations

With a  $\pm 20\%$  variation of the 2.4-ke primary-power frequency, the communications, CC&S, and command systems operated normally; the data encoder did not.

With the 38.4-ke sync removed and the spacecraft in cruise mode, the free-running frequency of the primary power was 2077 cps when the gyros were running and 1977 cps when the gyros were inactive.

All subsystems operated normally with a  $\pm 1\%$  variation of the 2400-cps power. This demonstrates that all subsystems will operate normally with the  $\pm 1\%$  frequency variation in the 38.4-kc backup oscillator planned for future spacecraft.

#### **DEV Test 4. Noise Susceptibility**

#### Objectives and scope

A quantitative noise profile of the spacecraft shall be prepared in the following manner: (1) record quantitative measurements in those areas of the spacecraft system which past experience indicates are noise sources; (2) monitor for the presence and magnitude of transients at additional selected points as the spacecraft is run through a synthesized sequence which exercises the monitored elements in their appropriate operational modes; (3) monitor for transients that exist between the return-side and the structure at each subsystem location as the spacecraft is run through a synthesized operational sequence.

In its respective area of responsibility, each subsystem group will be required to determine how closely the measured noise levels approach the threshold of deleterious susceptibility. Monitoring may be accomplished by use of the 10-channel transient monitor developed by the JPL Instrumentation Section.

#### Results and recommendations

The noise profile recorded between the spacecraft grounds and the OSE grounds indicated that the spacecraft was relatively quiet. When AC5A, AC6B, and gyro on-off loads were applied, a brief loss of data sync resulted from momentary change in the 2.4-kc power frequency.

As a result of this and other DEV tests, a complete and systematic review of the entire spacecraft grounding system was initiated.

DEV Test 5. Operation of 400-cps and 2.4-kc Power Amplifiers with Booster Regulator Failure

Objectives and scope	Results and recommendations
The effect of a $\pm 10\%$ variation on the direct-current input to the 400- and 2400-cps power amplifiers shall be determined. The output voltage of the 400- and 2400-cps power amplifiers shall be measured with various system loads as the direct-current voltage is varied $\pm 10\%$ from nominal.	The test data indicate that the 400- and 2400-cps power amplifiers would operate satisfactorily on inputs of $52 \text{ v} \pm 10\%$ . The specified tolerance on the input voltage is $\pm 1\%$ . These results demonstrate that the power amplifiers would perform satisfactorily in the event of a booster regulator failure.

DEV Test 6. Spacecraft Power-Factor Determination

Objectives and scope	Results and recommendations
Measurements shall be made of individual and combined power factors for various loads of 2400- and 400-cps power supplies. Also, the effect on wave forms shall be determined.	In this test series, the power factor was shown to be consistently higher than 0.95, as required by system specifications.
	Laboratory techniques used to measure power factor included the two-meter method, the wave-analyzer method, and the comparison method. The phase-meter and watt-meter techniques were found to be the most feasible procedures.
	Since the test results appear conclusive, despite some relatively minor discrepancies of theory, no further tests in this area are considered necessary.

#### DEV Test 7. Data Encoder and RF Grounding Investigation

# The adequacy of the data encoder and RF grounding shall be determined by studying the flow of currents in existing grounding wires between the respective packages. Also, the voltage difference shall be measured between the data encoder (DE) and RF

The test procedure shall be as follows:

(1) Measure:

grounds.

- (a) The currents in the existing DE and RF ground wires.
- (b) The voltage between the DE-signal ground and the spacecraft ground in the RF package.
- (2) Note the DN value of the RF telemetry measurements at the DE GSE.
- (3) Open the mixed-signal ground and repeat (1) and (2), above.
- (4) Close the mixed-signal ground, open the telemetry ground to the RF package, and repeat (1) and (2), above.
- (5) Open both the mixed-signal and the telemetry grounds and replace with grounds of larger cross-sectional area.

#### Results and recommendations

As a result of this test, one significant ground loop was discovered and corrected, and the need for a complete and systematic review of the entire grounding system was established. Also, a comprehensive theoretical study of grounds and grounding philosophy was initiated.

#### DEV Test 8. Mariner R-3 Reflectance Investigation

#### Results and recommendations Objectives and scope The data obtained in this test indicate that the maxi-Determination shall be made of the amount of heatmum effect of reflectance on spacecraft temperature ing on the Mariner 2 which can be attributed to reflecdid not exceed 10%. Preliminary data reduction shows tions between portions of the spacecraft. Also, it shall that an average of about 1% of a solar constant of be verified that the proposed test procedure is practical reflected light is incident on vertical hex faces and on for this application. the surfaces of the Earth sensor. These results are of great interest, in that they represent the first separation of the reflection effect from other modes of heat input. The spectrally selective nature of the sensor used in the test, together with the relatively poor spectral solar simulation of the Hg-Xe lamps, limited the accuracy of the results. However, the accuracy was well within the broad limits of an investigation of this order of magnitude.

#### DEV Test 9. Science Case Harness (Case 1) Evaluation

#### Objectives and scope<sup>a</sup>

It shall be determined whether the additional weight and bulk of shielded wires is justified by a significant reduction in ambient noise levels and/or crosstalk.

Representative ambient noise levels shall first be measured using the present case harness; the same readings shall then be taken using a harness in which only the ac power leads are shielded. More important, perhaps, subsystem and system operation in normal operating modes shall be observed with the unshielded case harness installed, and these results shall be compared with findings in the previous tests using the present harness.

#### Results and recommendations

When the flight-case and science signal harnesses were replaced by special harnesses in which only the ac power lines were shielded, the subsystem continued to operate without observable degradation. In addition, the noise amplitudes were generally equal to or lower than those observed with the flight harnesses installed.

It can reasonably be concluded, therefore, that the *Mariner 2* science subsystem would have performed equally well without the additional weight and complexity of shields on most of the signal wires. Obviously, without further testing, the same conclusions cannot be drawn regarding other subsystems having different signal amplitudes and terminating impedances.

These test results indicate, however, that it may be worthwhile, from the weight and reliability standpoint, to consider the fabrication of two sets of harnesses, one shielded in the *Mariner 2* manner and the other unshielded except for the ac power wires, for use in future programs.

After tests 9 and 12 were performed it was argued that the method of testing could have been improved by using the oscilloscope preamp differentially, with the signal return connected to the second input. This would tend to remove from the scope presentation any pickup induced in the GSE cables. It has further been suggested that the photographs be taken at the spacecraft with the GSE connectors removed. This would eliminate pickup due to GSE cables, but would nullify the capability of simulating experiments from the GSE. Certainly, expansions and refinements of the test would be interesting as well as useful for further design. Such things as crosstalk could be investigated more thoroughly by injecting random noise on one signal pair and observing pickup on others.

<sup>\*</sup>In the interest of efficiency, this test was combined with DEV test 12, the data conditioning system ground investigation. The test results presented here are applicable to both investigations.

#### DEV Tests 10 and 11. Limiting of 2.4-kc Clock

#### Objectives and scope

#### Results and recommendations

#### DEV Test 10:

Event-channel noise shall be monitored to obtain additional information about noise characteristics, so that event-conditioning circuits can be designed for optimum performance. The four event-channel leads shall be monitored with the 10-channel transient monitor (or equivalent) as the spacecraft is run through a simulated operational sequence. Also, the mixed signal shall be monitored to determine the effect these transients may have on the mixed signal and the related data display equipment.

#### DEV Test 11:

The 2400-cps primary power supplied to the data encoder shall be monitored. From this test, the amount of hard limiting of the 2400-cps clock can be determined. The 2400-cps input to the data encoder transformer-rectifier unit shall be monitored, using the unassigned channels of the 10-channel transient monitor, as the spacecraft is run through a simulated operational sequence. The amplitude of the transients shall be measured as they appear on the 2400-cps input to the data encoder transformer-rectifier unit.

These tests provided additional information necessary for redesign of the event-channel circuitry and helped to complete the documentation of this problem. However, the objectives of the test were not fully met, and the data were incomplete because of numerous anomalies in the test procedures. More extensive bench testing of the circuits involved is necessary to produce specific circuit changes.

Test results indicate the need for further investigation of the grounding philosophy. Also, it is strongly recommended that modified modules not be tested in the spacecraft unless they have been thoroughly tested in a bench configuration. This will prevent miswiring from interfering with a DEV test.

### DEV Test 12. Data Conditioning System Ground Investigation

Results and recommendations
See results and recommendations for DEV Test 9.

**DEV Test 13. Calibration of Temperature Transducers** 

Objectives and scope	Results and recommendations
Techniques for calibrating temperature channels shall be tried and one procedure selected for future use. Measurements to compare several means of calibrating individual temperature-transducer circuits shall be made in the following manner:  (1) Disconnect the ring harness, connect the 10-ft cable and decoder box to the data encoder, and make resistance measurements.	The decade-box calibration method proved superior to the previously used black-box method, and is recommended for all future calibrations of this nature. When calibration curves based on the decade-substitution method are used, the spacecraft will appear to be 10 to 15°F cooler for any given received value than when black-box calibration curves are employed.
(2) Disconnect each temperature transducer in turn, substitute a decade box, and make resistance measurements.	The new method had the following advantages:  (1) It was not necessary to remove the data encoder from the spacecraft.
	(2) Long leads from the spacecraft to the operational sequence equipment were eliminated.
	(3) Actual wiring was used except for 6 temperature transducers.
	(4) Calibration was provided for the individual, rather than the average, transducer.
	A disadvantage of the new method was that a new curve had to be plotted when the transducers were interchanged. However, this did not require actual measurements.

Results and recommendations

#### **DEV TEST 14. Long-Range Earth Sensor Reflection**

#### Objectives and scope Results and recommendations It shall be determined whether reflection from the The results of this test show that reflected sunlight Sun's rays on various spacecraft components would does not affect the light-intensity output, nor do the show a degradation in the Earth-intensity output. Also, components located on the antenna create any Earth the possibility of a false reflected acquisition source sensor problems. shall be investigated. In this test, to be conducted in the celestial simulation building, the spacecraft will be oriented with the solar panels in the extended position, facing the simulated Sun. The high-gain antenna will be moved, in hinge, from its folded position to the farthest possible

forward position. The long-range Earth sensor test rack is to be used to supply power to the Earth sensor and to monitor the light-intensity output and the acquisition signal. A battery-operated light will be used to simulate the Earth for the Earth-acquisition indicator.

Objectives and scope

#### **DEV Test 15. Temperature Control**

#### The simulated conditions resulted in spacecraft A temperature-control investigation shall be made temperatures about 10 to 22°F lower than those indiwith the following objectives: cated in the flight information telemetered from (1) To determine whether a correlation can be estab-Mariner 2. The temperature discrepancy was greater lished between flight data from the Mariner 2 for higher values of simulated solar intensity. and test data obtained by using Mariner R-3 in the 25-ft space simulator. The full-fledged chamber test, while indicating lower (2) To determine the cause of excessive heating on temperatures, did provide temperatures considerably Mariner 2, particularly in the area of the longcloser to flight conditions than those obtained in preflight tests. Had the space simulator been available, range Earth sensor. in its present form, in sufficient time for use in the The Mariner R-3 will be rigged in a Sun-oriented Mariner R project, a considerable improvement in attitude in the center of the illuminated area of the flight temperature-control performance would have 25-ft space simulator. The spacecraft will be operated been realized. in the cruise mode, with science both on and off. Also, the position of the long-range Earth sensor will be varied between 70 and 15 deg (approximately) from the stowed position. The temperature of the spacecraft will be monitored by the telemetry system and auxiliary thermocouples as required.

(6) Obtain midcourse motor vibration measurements.(7) Obtain midcourse motor temperature measure-

#### **DEV Test 16. Simulated Midcourse Interactions**

#### Objectives and scope Results and recommendations A simulation of midcourse-maneuver interactions In general, this test showed the theoretical values shall be obtained by the following procedures: used in the design of Mariner R 1962 spacecraft to be in good agreement with actual performance values. (1) Fire the midcourse motor two consecutive times Specific results in the test program indicated that: with the spacecraft in the Mariner 2 configuration, and compare the data with analog-computer (1) Such hot firings constitute valid and useful tests for spacecraft autopilot systems, and should be simulation data. performed before flight for future spacecraft. (2) Obtain natural-frequency data of the structural system by performing the following modal tests: (2) Modal analysis on the type of suspension system used provides valuable information and should (a) Excite the solar panel and measure the natube performed as early as possible in the spaceral frequency as a cantilever. craft development program. (b) With the spacecraft suspended, make a (3) Analysis and analog-computer simulation results frequency-response survey by exciting the were substantially confirmed. Both types of data spacecraft with a pair of exciters capable of will be improved by information from the hotvarying the frequency from approximately firing tests. 1 to 10 cps. The excitation shall be performed with the exciters in phase, and repeated with (4) Damping should be incorporated in the solar the exciters 180 deg out of phase. The gyros panel actuators, and backlash tolerances should shall be on. be held to a minimum. (3) Ballast the spacecraft and solar panels to balance the solar panels about the center of mass of the spacecraft, and fire the motor a third time. Compare the results as in (1), above. (4) Add dampers to the solar panel actuators, remove the ballasts added in (3), above, and fire the motor a fourth time, to observe the effectiveness of damping under the worst condition. (5) Repeat the modal test, as in (2), above, with the spacecraft in a configuration as in (4), and in other configurations to be determined after completion of all the procedures listed above.

ments.

#### **DEV Test 17. Radio-Frequency Interference**

#### Objectives and scope

Results and recommendations

A radio-frequency interference test shall be performed to evaluate the effectiveness of JPL Specification 30236 for a space program, directly benefiting Mariner C, Mariner B, and Ranger. Specification 30236 covers both conducted- and radiated-noise susceptibility and conducted- and radiated-noise generation.

The data taken in this test made it possible to evaluate, at least partially, the effectiveness of Specification 30236A for the JPL spacecraft program.

The radiated-interference levels monitored were generally within the limits of the specification.

The calculated radiation levels to which the space-craft subsystems were subjected during the radiated-noise susceptibility tests were much higher than those given in the specification. Only one subsystem (transponder) was found to be susceptible. It appeared that the *Mariner R-3* subsystems, in general, were not susceptible to such interference levels.

In general, it was found that the philosophy and methods used for conducted-noise tests in Specification 30236A were not directly applicable to JPL spacecraft subsystem testing. The conducted-noise tests in the specification are designed to be performed on subsystem power lines; the power is assumed to be a single-frequency-audio sine function. The primary power for the JPL spacecraft subsystems is a 2400-cps square wave. This function is composed of closely spaced Fourier components which cover a broad band of the spectrum. The 30236A test methods were not designed for such a function and are not directly applicable for JPL spacecraft testing. The portion of the specification involving conducted tests will require considerable revision.

The following procedures were included in the test program:

- (1) Mariner R-3 launch-mode spectrum-signature tests. Data were taken for the frequency range from 30 cps to 10 Gc.
- (2) Umbilical cable susceptibility tests. The data were inconclusive.
- (3) Power subsystem spectrum-signature tests. The tests were partially successful. The data taken were representative of both the power subsystem and the CC&S.

#### DEV Test 17 (Cont'd)

Objectives and scope	Results and recommendations
	(4) CC&S tests. The spectrum-signature test was partially successful. The data taken constituted a composite of the CC&S, the power subsystem, and the attitude control subsystem. No degradation was noted during the radiated-noise susceptibility test. A conducted-interference test was performed on one of the CC&S dc lines. The test was not completed because of CC&S degradation, believed to be caused by the test setup.
	(5) Data encoder tests. Data for part of the spectrum signature were taken (14 kc to 1 Gc). Lack of OSE operator time prevented further testing.
	(6) Command subsystem tests. Spectrum-signature data were taken. No degradation was noted during the radiated-noise susceptibility test. No conducted-noise tests were performed because of limited OSE operator time.
	(7) Transponder subsystem tests. Spectrum-signature data were taken. A partial radiated-noise susceptibility test was made, and phase detector degradation was observed. No conducted-noise tests were performed because of limited OSE operator time.

### **DEV Test 18. Radiometer Scan Angles**

Objectives and scope	Results and recommendations
A test shall be conducted to determine whether some radiometer scan angles occurred more frequently than others. The spacecraft is to be operated in Mode III for a period of not less than 4 hr in a permanent slow-scan mode, to obtain data which will help in resolving some <i>Mariner 2</i> encounter anomalies.	The test results indicate no strong evidence of binding or sticking in the scan mechanism; the fluctuations about the average which were noted could have been statistical. The period of fluctuation, about 40 sec, did not correspond to any known periodic phenomenon of the spacecraft. On the basis of this test, no conclusions concerning the <i>Mariner 2</i> data anomalies could be attributed to binding or malfunction of the scan mechanism.

### Supplement VI

### Summary of Failure Reports for Mariners 1, 2, and R-3

The material in this Supplement represents a complete compilation of all failure reports issued against equipment for the Mariner 1, 2, and R-3 spacecraft. The term failure report was originally conceived to cover discrete malfunction (e.g., component failure). However, as testing proceeded in the Mariner program, it was recognized that a broader system was required to report discrepancies and anomalies which did not fit into this category. The scope and use of the failure report was therefore increased to cover any difficulty or abnormal indication requiring attention (the investigation of transients, for example). The purpose of this approach was, of course, to insure that no item requiring action would be overlooked. Thus, it should be recognized that the title failure report was a misnomer, as it was applied in the Mariner test program; a more accurate title might have been action-requirement report.

In the tabulations which follow, it will be noted that the current action status (right-hand column) is defined as closed or open. The term open, as applied here, means that insufficient action appears to have been taken in resolving the problem listed. As pointed out in the discussion of Mariner flight reliability (Section VI, Volume I, of this Report), a significant correlation appears to exist between known or suspected flight malfunctions and the open items in the failure reports. On Mariner 1, a total of 106 failure reports were issued, of which 14 are classified as open. Of the 84 failure reports issued against Mariner 2, 20 are open.

It should also be recognized that the failure reports do not give a complete picture of the *Mariner* components from the standpoint of workmanship and quality control. The reports were not issued against defective items dis-

covered in the various inspection processes. For example, no failure report was made on a faulty transistor lead which was replaced after its discovery on final inspection.

In the following summary, the failure reports are classified as follows: first, by the spacecraft against which the report was issued; second, by the subsystem affected; and, third, by the numerical sequence of the applicable report.

The following symbols are used in the summary to designate the cause or type of failure encountered:

C component problem

DES design error

DOC documentation error

E environmental problem

GL ground loop

GSE ground support equipment problem

H handling problem

I investigation

MI mechanical interference

P personnel problem

UN unexplained difficulty

W wiring problem

The failure reports issued during the spacecraft test programs at AMR are identified by the letter A, preceding the report number.

### A. Mariner 1 Failure Reports

Failure	Component		Failure			
report No.		Reference designation	Description	Type or cause	Action taken	Action status
			Scientific experiment	5		<del>,\</del>
3	Magnetometer	22A2, 22A3	Ground loop occurred.	GL	Ground loop was removed.	Closed
4	Microwave radiometer	21A1, 22A1	Ground loop occurred.	GL	Amplifier was insulated.	Closed
10	Infrared radiometer	27A1	Defective detector was found.	С	Detector was replaced.	Closed
13	Solar plasma analyser	23A1 to 23A3	Short circuit occurred between signal return and ground.	GL	Wiring was replaced.	Closed
31	Data conditioning system	20A21 to 20A25	Counter was inoperative because of manufacturing error not detected before delivery to SAF.	w	Missing wire was installed.	Closed
34	Scan actuator	21A2	Limit switch failed.	DES and W	Limit switch was replaced and ECR was generated for design change.	Closed
36	Scan actuator	21A1	Overtravel on limit switch was caused by documentation error on ECR.	DOC and W	Prints and wiring were corrected.	Closed
43	Solar plasma programmer	23A2	Wiring error was discovered.	w	Wiring was corrected.	Closed
47	Magnetometer	22A1 to 22A3	Improper readout on magnetometer at GSE was caused by short in GSE.	W (GSE)	GSE wiring was corrected.	Closed

<b>.</b>			Failure			Action status
Failure report No.	Component	Reference designation	Description	Type or cause	Action taken	
			Scientific experiments (cont	r'd)		
55	Scan actuator	21A2	Scan actuator switch was damaged by overtravel due to malfunction of DCS.	DES	Switches were replaced, and transient causing overtravel was corrected by ECR 4732 and 4980.	Closed
56	Data conditioning system	20A21, 20A22	(1) Improper readout on ion chamber experiment was caused by incompatible timing with data encoder.	DES	(1) This was not considered detrimental when the cause was understood.	Closed
			(2) Logic problem caused incorrect fast-scan calibrate.	DES	(2) Problem was due to undesirable logic, which was corrected by ECR 4761.	Closed
60	Scan actuator	21A2	Limit switch was suspected of failure resulting from malfunction of DCS.	ı	Unit was inspected; no damage to unit had occurred.	Closed
73	Microwave radiometer	21A1	Microwave radiometer functioned improperly in system test complex. Possible source of trouble was believed to be at GSE or S/C. Radiometer functioned normally in lab tests.		Problem remained under investigation.	Open
92	Data conditioning system	20A2 to 20A5	Wiring error was found in DCS logic.	w	Problem was corrected by incorporation of ECR 4761.	Closed
93	Data conditioning system	20A21 to 20A25	Improper sequence occurred during radiometer calibrate.		Circuitry was examined, but no failed components were detected. Careful observation for this phenomenon was instituted.	Open
212	Data conditioning system	20A21 to 20A25	A—D conversion on odd words was in error.	DES	Pulse-shaping circuit was added in DCS T-R.	Closed
219	Solar plasma analyzer	23A1 to 23A3	Sweep-step 8 caused resetting of programmer after shake.	UN	When part was returned to JPL and inspected, it was working properly. Foreign object was suspected.	Closed
221	Data conditioning system T-R	20A25	+12-v supply dropped out of regulation.	С	Transistor was replaced. Difficulty may have been in solder joint.	Closed
243	Microwave radiometer	21A1	— 12-v supply dropped out of regulation.	DES	Current limiter in transformer tap was changed.	Closed
248	Magnetometer	22A1 to 22A3	Calibrations were invalid.	1	Unit was recalibrated.	Closed
249	Infrared radiometer	27A1	Calibrations were invalid.	ı	Previous calibration curves were used.	Closed

Failure			Failure	Failure		
report No.	Component	Reference designation	Description	Type or cause	Action taken	Action status
		-	Scientific experiments (con	ıt'd)		•
A260	Solar plasma analyzer	23A1 to 23A3	Programmer would not step.	С	Transistor was replaced with one from another manufacturer.	Closed
A266	Microwave radiometer	21A1	Scan actuator, infrared radiometer, and infrared calibrate outputs were low because of faulty +12-v supply.	W	Unsoldered connection was reworked.	Closed
A267	Particle flux detector	25A1	Count rates were low on unit 3.	GSE	GSE source was recalibrated.	Closed
A268	Infrared radiometer calibrator	27A2	7°F error occurred in output.	С	Components were replaced, and recalibration was performed.	Closed
A274	Microwave radiometer	21A1	Erratic outputs noted in Explosive Safe Area resulted from 960-mc RF energy.	DES	Tests were run to determine threshold and expected field strengths. Shielding was to be done on an individual basis.	Closed
A284	Infrared radiometer	27A1	Ground loop occurred between infrared chassis and microwave chassis. Mounting screws were bottoming.	GL DES	Metal filing was removed and flat washers were installed under heads of screws.	Closed
A286	Solar plasma programmer	23A3	Ground loop occurred.	GL	Burr on programmer chassis was shorting to Case I.	-Closed
			Attitude control system			
14	Attitude control gyro package	Serial No. 3	Large roll offset was noted at GSE. When unit was returned to lab, it checked out normally. It was then reinstalled on S/C and abnormal indications were again obtained. However, when spare gyros were installed, normal indications were obtained.	С	Unit was not considered flightworthy and was replaced with new gyro.	Closed
30	Antenna servo electronics	7A13	Antenna hinge moved outward at approximately half speed as compared with inward movement.	С	Defective component SCRQ10 was replaced.	Closed
35	Primary Sun sensor	7A25	Terminal-board potting was damaged by improper handling.	DES	Units were repotted and personnel instructed to be cautious.	Closed
45	Attitude control pitch valve	7A34	Accident to valve caused it to break loose from valve block.	P	Since this was not flight- accepted gas system, unit was resoldered. In addition, safety guards and pressure- switch manifolds were designed to prevent similar accidents.	Closed

Failure			Failure			
report No.	Component	Reference designation	Description	Type or cause	Action taken	Action status
			Attitude control system ((co	nt'd)		
58	Earth sensor	7 <b>A</b> 10	When AC6B Earth-acquisition command was turned on, command switched from omni- to directional antenna.  Problem was traced to light leak in Earth sensor.	Р	Aluminum-backed tape was applied.	Closed
68	System		2400-cps power dropped from 100 VPP to approxi- mately 20 VPP for approximately 4 msec when AC5A was initiated.	DES	ECR was incorporated in attitude control electronics to move switch from primary side to load side of transformer-rectifier. This eliminated power transient.	Closed
77	System		System transient of unknown origin switched data encoder from Mode 1 to Mode III.	DES	Line amplifiers were installed and no repeat of failure was noted.	Closed
106	Primary Sun sensor	7A25 7A28	Terminal posts on Sun sensors were loose.	DES	All personnel were instructed to use low-voltage soldering irons on units. Further action was taken by ECR.	Closed
107	Sun gate sensor	7A31	Terminal posts on Sun sensors were loose.	DES	Unit was re-epoxied.	Closed
213	Earth sensor hood		Light leaks occurred.	DES	Earth sensor was sealed by bonding.	Closed
234	Gas system		Gas-system leaks occurred.	с	Leaking gas system was replaced with spare gas system. Leaking system was repaired.	Closed
242	Antenna drive	7A13	Antenna exit angle was 124 deg.	I	Exit angle potentiometer was adjusted to give antenna exit angle of 120 deg.	Closed
247	Earth sensor hood	7A1D	Aluminum foil used to seal out light did not bond properly to yoke.	DES	Foil was rebonded and checked for further leaks.	Closed
A265	Gyro assembly	7A1	Relay failure in gyro module caused out-of-tolerance condition in C-phase of 400-cps inverter.	С	Relay was replaced.	Closed
A273	Gas system		Fill-port needle valve seized during pressurization.	С	Gas system was replaced.	Closed
A289	Valve cabling		Cabling was reversed on roll valve and pitch valve on — Y-axis.	w	Cabling was corrected.	Closed
A294	Gas system		Minus yaw valve on minus pitch axis did not discharge gas.	н	Gas jet nozzle was removed and new nozzle was installed.	Closed

E_:1			Failure			
Failure report No.	Component	Reference designation	Description	Type or cause	Action taken	Action
			Telecommunications syst	em		
50	Case II	Serial No. 12	Receiver threshold was not up to specifications because of improper IF adjustment.	I	Receiver was tuned and procedure was initiated to insure better acceptance tests.	Closed
52	Data encoder	6MT4	No blip register occurred when solar panel microswitch was closed.	DES	ECR 4812 was incorporated.	Closed
57	Case II	Serial No. 14	Receiver threshold was degraded 3 db.	С	Subsystem module was replaced (X42).	Closed
70	RF cables		RF cables were unusable because of cold flow.	DES	ECR was written to install connectors to prevent cold flow.	Open
74	Data display	GSE	All event registers were lost because of failure in word-sync flipflop.	С	L3-01 card was replaced.	Closed
75	Flight shroud		Measurements at 890 mc with flight shroud installed showed greater losses than expected.	DES	Shroud configuration was modified by addition of RF reflecting sheet above coupler support.	Closed
79	Data encoder		Temperature transducer was shorted to ground.	С	Transducer was replaced with new flight-accepted unit.	Open
84	Data encoder, GSE		Present design between data display and data encoder does not allow data display option of working off RF drive or encoder hardline. This is considered undesirable because data encoder operations disturb data display unnecessarily.	DES	Redesign necessary to eliminate problem was not considered to be warranted at this time.	Closed
85	Transponder	2A1, 2A2 Serial No. 12	Command modulation appeared on data modulation when system was in two-way lock and command modulation was present.		No followup was made.	Open
86	Transponder	2A1	GSE monitor of high-gain cavity showed a drop of 2 db. Water was detected in coax feed-through connector in vacuum chamber; when part was dried out, normal indications resulted.	E	Connector was sealed in subsequent tests.	Closed
87	Command decoder	3A4	System transient caused command to drop lock and put event into register 4 of data encoder. When command went out of lock, event was again put into register 4.		No action was taken.	Open

Failure			Failure		Action taken	Action status
report No.	Component	t Reference designation Description	Description	Type or cause		
		T	elecommunications system (c	ont'd)		
90	Data encoder	6A1-6TR1	Data encoder GSE experienced difficulty at 8 bps. Amplitude and phase distortion was noted on hardline.	DES	Line amplifier was incorporated in GSE.	Closed
97	Data encoder	6A1-6TR1	Event register indicated random counts following S/C on-off cycle.	DES	Procedural steps were taken to clear channels when difficulty occurred. Circuit changes were not considered wise at this time.	Closed
98	Data encoder	6A1-6TR1	Antenna reference potentiometer (channel 13) and antenna position potentiometer showed 7-deg discrepancy.	I	T/M channels were recalibrated.	Open
99	Data encoder		Science power transients caused data display to lose sync; event register picked up false counts.	DES	Some science transients were decreased by filtering flexo-writer lines and by use of flight hardware. Circuit modifications were considered undesirable at this time; data recovery was believed possible, if necessary, during transient periods.	Open
100	Command decoder	3A4	During space simulator test, free-running frequency of command detector VCO drifted 2cps.		VCO was monitored for drift characteristics.	Open
101	L-band communications, GSE	Serial No. 7	GSE had abnormal difficulties remaining in lock. Condition seemed to be aggravated when command modulation was present.		Investigation was made.	Open
102	Data display	GSE	Signals were not at proper levels. It was suspected that data display transistor switches had degraded after bit and word sync.	С	All switches in question were replaced.	Closed
103	Data display	GSE	Printer malfunctioned.	С	Periodic cleaning and maintenance were ordered.	Closed
104	Data display	GSE	Low output was obtained from recordings on magnetic tape.	ı	Readjustment was made on tape-recorder playback amplifiers.	Closed
222	System		Transients occurred during switching of antennas.	1	See failure report 251.	
223	System		Faulty indication was noted on data display lights. Difficulty was caused by transients in systems test complex.	1	No action was considered necessary.	Closed

Failure			Failure			Action status
report No.	Component	Reference designation	Description	Type or cause	Action taken	
			Telecommunications system (	cont'd)		-
224	System		Erroneous event register readout was obtained.	ł	Event registers were monitored more closely.	Closed
231	Data encoder		Incorrect readings were obtained on several T/M channels when temperature transducers were not connected.	1	Transducers were connected.	Closed
232	Transfer register	6MT3	Noise from command system caused lock-indication flipflop to reset in random manner.	DES	ECR 4815 was incorporated.	Closed
237	Data display		Data recovery was poor (playback of tape).	н	Operators were reinstructed.	Closed
250	Data encoder		False data were obtained on first cycle. Data were normal on next cycle.	1	No action was taken because of high-noise environment.	Closed
251	Transformer- rectifier	2A4	During system test 4, it was noted that transients occurred during transfer from omni- to directional antenna, or inverse.	I	Unit was returned to American Electronics for rework, and was replaced with A2905.	Open
A271	Directional antenna	2A11	Aluminum filings, fiber filings, and dirt were located internally in alignment shaft to antenna yoke. Filings were also found at right-angle RF connector.	Н	Antenna was cleaned, electrically checked, and returned to SAF.	Closed
A275	Command decoder, RWV	3A1	Phase reversal occurred because two isolation transformers were wired backward. False lock was due to procedural error.	ı	Proper phasing was insured by hardline. Operator and test-site checkout were planned prior to first launch.	Closed
			Central computer and seque	ncer		
5	End counter	5A3	When counter stopped, T/M blip did not function properly because of defective tantalum capacitor and diode.	С	Defective components were replaced.	Closed
91	System	5A1 to 5A8	Second pulse occurred at 24,000 counts, instead of normal 60,000 counts.	w	Missing wire in 5A2 module was installed.	Closed
245	End counter	5A3	AC22F (encounter stop) did not occur during system test 4. Noise on relay light line to GSE caused this failure.	DES	Diodes were added to CC&S GSE to effect needed isolation.	Closed
A263	Transformer- rectifier	5 <b>A8</b>	Command PT19A failed to occur. Later, both PT18A (motor burn) and PT19A (motor shutoff) failed to occur.	GSE	Trouble was traced to GSE and corrected.	Closed

Failure			Failure			Action
report No.	Component	Reference designation	Description	Type or cause	Action taken	status
			Power system			
1, 2	400-cps power amplifier	4A8	Power-output transistor collectors showed leakage to case.	DES	Collectors were rerouted to prevent case leakage.	Closed
29	Battery	4A14	Battery voltage decreased to low value, and temperature started to rise.		Battery was removed from S/C, and recharging was required.	
38	400-cps power amplifier	4A8	Amplifier could not be transferred into single-phase mode because of welded relay contacts in module.	DES	Larger capacitor relay was installed per ECR 4911.	Closed
83	400-cps power amplifier	4A8	C-phase voltage remained out of tolerance for long period of time.		Unit was replaced with spare.  Original unit was subjected to various tests without success in inducing same failure. Circuit was under examination by Westinghouse.	Open
218	Battery	4A14	Cell 6 went to zero under load.	C and DES	Battery was replaced. Efforts continued to extend battery life.	Closed
225	Power switching and logic	4A1	Erratic readings were observed on T/M channel 06.	DES	See failure report 244.	Closed
229	Power switching and logic	4A1	Failure in PS&L module caused erratic reading of T/M readout for battery drain.	С	Resistor was replaced.	Closed
239	Battery	4A14	Low voltage was obtained.  Cells 1, 3, 5, 7 were  internally shorted.	C and DES	Cell design was changed to reduce possibility of shorts. (See failure report 218, above.)	Closed
244	Power switching and logic	441	T/M channel 06 was erratic during calibration. Failure was traced to variable resistance of kinetic-switch contacts.	DES	Current measurement was removed from kinetic contacts and introduced between terminal post and input to diode, as per ECR 4921.	Closed
282	Power, GSE		Sticky meter movement was observed during launch pad checks. Gage would not zero.	С	Ammeter was replaced.	Closed
	<u> </u>	<u> </u>	Mechanical component	s		
6, 7, 8, 9, 15, 16, 17, 19, 20, 21, 22, 23, 24,	Spacecraft cabling		Multiple troubles were encountered with Deutsch connectors: e.g., pin retention, broken pins, and shell damage.	DES	ECR 4560 was incorporated, which essentially replaced all Deutsch connectors in spacecraft with Bendix Pygmy connectors.	Closed
25, 26, 33						

Failure			Failure			
report No.	Component	Reference designation	Description	Type or cause	Action taken	Action status
			Mechanical components (co	ont'd)		
18	Antenna drive actuator	7A11	Gear plate had a bent potentiometer shaft.	DES	Gear assembly was redesigned per ECR 4985.	Closed
28	Antenna drive gear box		Entire assembly showed 5 deg of free movement because pins on flange output were sheared.	DES	Part was redesigned per ECR 4985.	Closed
37	Baffle box, Earth sensor		Baffle box shield did not adhere properly because of faulty potting.	DES	Anodyzing was removed from area and unit was repotted.	Closed
48	Ring harness	9W1	Wire was damaged when Case III was closed.	н	Connector was removed, nick on wire was cut off, and connector was replaced.	Closed
53	Ring harness	9W1	Broken wire prevented battery charging.	н	Broken wire was repaired and rerouted to gain extra strength.	Closed
53	Ring harness	9W1	Wire was broken.	Н	Wire was rerouted.	Closed
78	Ring harness	9W1	Intermittent open circuit on pin of connector was noted.	H and DES	Connectors were replaced and personnel were instructed to be extremely careful in handling Cannon D connectors.	Closed
80	Scan actuator switch	21 A2	Scan actuator switch failed. Actuator was improperly assembled.	l (Assem)	Unit was rebuilt at JPL.	Closed
81	Upper thermal shield		Thermal shield was grounded and cosmic dust detector chassis and radiometer latch were locked.	DES and H	Possibility of interference from Mylar wrapping and thermal shield grounding instrument were noted. Careful surveillance was ordered to insure that no such problems exist in flight configuration.	Open
88	Science cable	21A1P2	Pin of connector was recessed, preventing contact.	DES	Cable was redesigned (see failure report 89, below).	Closed
89	GSE cables	3W2010 3W2011	Radiometer failed to operate properly because of interference from GSE cables.	P and DES	New cables were fabricated which were longer and more flexible.	Closed
94	External solar cell terminal board		Interference occurred between louver and terminal post on outside of Case IV. It was suggested that terminal post be trimmed to alleviate clearance.	ΜI	No action was noted, but problem appeared to have been eliminated.	Closed
105	Cable feed-through plate		Bendix connectors could not be locked because of mechanical interference with feed-through plate.	MI	Cable was carefully installed to relieve any side loads. New feed-through plate was fabricated.	Closed

			Failure			ļ	
Failure report No.	port Component design		Description	Type or cause	Action taken	Action status	
			Mechanical components (c	ont'd)			
200	Earth sensor Sun shade		Sun shade mounted on baffle box was 180 deg out of proper orientation.	P	Sun shade was properly installed.	Closed	
204	Ring harness	9W1	Full pressure on N <sub>2</sub> transducer when at atmospheric pressure was caused by reversal of two leads.		Wires were reversed in ring harness for proper read- outs; however, it was not known whether documentation was in error.	Open	
214	Science power harness	9W23	Unmarked connectors were found.	н	Closer inspection was ordered.	Closed	
220	Ring harness	9W1	Commands RTC-2 and RTC-3 were reversed.	DOC	ECR 4516 was incorporated on D revision of Dwg. 119101.	Closed	

### B. Mariner 2 Failure Reports

			Failure			
Failure report Component No.		Reference designation	Description	Type or cause	Action taken	Action
			Scientific experiments			
12	Module	23A1 to 23A3	Improper deflection was noted on magnetometer circuitry.	С	Defective GSE meter was replaced.	Closed
40	Particle flux detector	25A1	Ground loop occurred.	GL	Improper wiring was corrected on instrument.	Closed
42	Scan actuator	21A2	Radiometer scan actuator travel was beyond limits.	w	Wiring error was corrected according to print.	Closed
69	Data conditioning system	20A21 to 20A24	Relay drive gave improper action.	С	Defective cable was replaced.	Closed
71	Data conditioning system harness	9W24	Intermittent circuit in DCS was attributed to rework and excessive handling of harness.	н	Harness 9W24 was replaced.	Closed

Failure			Failure				
report No.	Component	Reference designation	Description Type or cause		Action taken	Action status	
			Scientific experiments (co	nt'd)			
72	Module	23A1 to 23A3	Improper demodulator wave form was observed on solar plasma experiment.	С	Defective transistor was replaced by one of new type.	Closed	
201	Science power switching	20A1 Serial No. 2	Science came on and off improperly during shake.	С	Entire science Case I was released for additional vibration tests, where failure was again observed.	Open	
210	Solar plasma analyzer	23A1	Plasma sweep was reset at position 9.	Н	Bit of solder was cleaned out.	Closed	
236	System		Scan-speed-change noise transient affected DCS and cosmic dust detector.	DES	No action was considered necessary.	Closed	
254	System		Cruise calibrate sequence noise affected timing in DCS.	DES	No action was considered necessary.	Closed	
A257	lon chamber	26A	Dent in chamber caused malfunction in lab tests.	H and W	Chamber was replaced.	Closed	
A258	Microwave radiometer	21A1	13.5-mm waveguide was broken.	H and DES	Handling precautions were increased. Devcon F fillet was added at joint between diplexer and waveguides.	Closed	
A262	Scan-activator bearing	2	Radiometer scan was inactivated by excessive drag from bearing.	С	Unit was replaced and returned to JPL for analysis of contaminant.	Closed	
A272	Particle flux detector	25A1	Dent was found in stainless tube.	н	Inspection and test revealed no effect on performance because of resilient layer between stainless shield and GM tube.	Closed	
A280	Microwave radiometer	21A1	System gain decreased.	С	Amplifier gain was changed and baseline was reset.	Open	
A281	Magnetometer	22A1 to 22A3	100-gamma offset occurred on X-axis.	NU	Instrument was checked at Marshall Laboratories and rechecked at JPL without any repetition of anomaly.	Closed	
A283	Magnetometer	22A1 to 22A3	No response to GSE calibration pulse was obtained.	GSE	Trouble resulted from GSE grounding problem and occurred only when unit was removed from spacecraft.	Closed	
A285	Microwave radiometer	21A1	13.5-mm channel became saturated.	С	Oscillation occurred as a result of drift in narrowband amplifier. Filter was retuned.	Open	
A293	Data conditioning system	20A21 20A24	During radiometer scan, DCS appeared to trigger slow-scan and reversal simultaneously.	С	Malfunction did not recur in further tests; may have been observational or statistical.	Open	

			Failure			_	
Failure report No.	Component	Reference designation	Description	Type or cause	Action taken	Action status	
			Scientific experiments (conf	r'd)			
A319	Data conditioning system, power switching, or radiometer		Cruise calibrate sequence worked noisily and encounter calibrate not at all.	UN	No action was taken.	Open	
			Attitude control system				
27	Antenna drive	7A13	Ground loop was caused by mechanical touching of unit and frame.	GL	End cap was repaired and modified.	Closed	
44	Yaw jet valve	7A35	Solder joint on nozzle of valve was broken during attempt to clean threads.	Р	Procedure was initiated to prevent recurrence of this type of failure.	Closed	
106	Primary Sun sensor	7A25 to 7A28	Terminal posts on Sun sensors were loose.	DES	ECR was incorporated to prevent loose terminals.	Open	
202	Primary Sun sensor	7A28	Sun sensor was broken during torquing operation of leg C.	Р	Investigation was made.	Open	
205	Pitch Sun sensor	7A28	Defective Sun sensor (primary pitch) was noted after S/C composite shake. Exact cause of failure was not discovered.	С	Investigation was made.	Open	
207	Primary Sun	All	All terminals on Sun sensors were loose.	DES	ECR was written to modify terminal installation.	Open	
A287	Gyro assembly	7A1	Overload condition on 400-cps C phase indicated possible malfunction of relay K1.	С	Relay K1 was replaced and ECR 4256 was incorporated.	Closed	
		<u></u>	Propulsion system				
A291	Pressure transducer	10PT1 8549	Unit showed defective performance during system test 3.	С	Transducer was replaced.	Closed	
A300	Midcourse motor		Visual gauge on fuel-tank pressure system indicated abnormal pressure (below 275 psi).	С	Leaky regulator was replaced with new regulator.	Closed	
		·	Telecommunications syst	em			
49	Command decoder	3A4	False command resulted in system response.	С	Defective transistors were replaced, and old transistors were placed under microscopic inspection.	Close	
61	Transponder	Serial No. 13	Transponder had low threshold.	С	X42 module was replaced.	Close	
62	Command decoder, GSE	3A1 to 3A4	Improper commands were sent if GSE was not cleared.	DES (GSE)	GSE wiring was changed to assure that GSE was in proper state.	Open	

Failure			Failure			
report No.	Component	Reference designation	Description	Type or cause	Action taken	Action
	<u> </u>	T	elecommunications system (	cont'd)		•
63	Data encoder, GSE		Loss of data encoder and data display sync occurred.	DES (GSE)	GSE inverter was corrected and filter added to decrease sensitivity to noise.	Open
70	Transponder	2A1, 2A2	RG-9 cables degenerated because of cold flow of Teflon.	DES	ECR 4779 was written to correct this malfunction.	Closed
76	Transponder		Transponder threshold showed degradation.		Lab investigation did not duplicate problem; test indicated unit met all specifications. Problem was thought to be one of GSE or S/C cabling and was to be checked when unit was reinstalled on S/C.	Open
95	Omnidirectional power monitor system		Directional power readout was obtained during operation in omniantenna mode with shroud on.	DES	ECR was written to install choke in circuit to eliminate false power.	Closed
206	Data encoder		Data encoder transfer register filled with extraneous pulses, and extra events were noted on channels 3 and 4 when command AC6B was initiated. In addition, data encoder and data display were affected by AC10B and AC5A and by science turn-on.		Investigation was made.	Open
208	Command decoder	3A1 to 3A4 Serial Nos. 6 and 7	T//M channel 11 showed command decoder out of lock when AC6B was set. This failure was momentary, and was determined to be false indication.	GSE	Noise on AC6B was eliminated. No further difficulty was noticed,	Closed
215	Teletype encoder	Serial No. 2	Encoder malfunctioned because of incorrect punching.	С	Old punch was replaced with new one.	Closed
216	Command decoder	3A1 to 3A4 Serial Nos. 6 and 7	False lock under high RF- signal-level conditions was caused by low-frequency phase shift.	GSE	10-db command signal attenuator and low-frequency pre-emphasis were installed.	Closed
226	Data encoder	6A1, 6TR1 Serial No. 2	Data encoder switched from Mode II, 8 bps, to Mode I, 33 bps, without command.	E	Noise was found to be due to cabling in environmental lab and noise in GSE.	Closed
228	Transponder	2A1, 2A2 Serial No. 13	X16 multiplier varacter failed after temperature checks in environmental labs.	С	Detailed analysis was made of component. Varacter diode was replaced.	Closed

			Failure			
Failure report No.	Component	Reference designation	Description	Type or cause	Action taken	Action status
		Te	elecommunications system (c	ont'd)		
241	Junction box	2A5 Serial No. 2	Open circuit was discovered between pins 35 and 36. Printed wiring was burned into two segments on ground bus between these pins.	UN	Jumper was installed between pins 35 and 36.	Closed
253	Data encoder	6A1, 6TR1 Serial No. 2	Extra events appeared in register 10/4; also, transfer registers filled, then cleared.	ı	Science off produced 1 event in channel 10/4. This was known problem. No corrective measures were taken.	Closed
A259	Data encoder	6A1, 6TR1 Serial No. 2	R44 potentiometer shaft sheared during adjustment.	н	Serial No. 3 was installed on S/C. Serial No. 2 was to be repaired to serve as flight spare.	Open
A269	Directional antenna	2A11 Serial No. 7	<ol> <li>Gold filings were found at right-angle connector, bottom of antenna feed.</li> <li>Inner pins in right-angle RF connector were rigid and would not properly align.</li> <li>Ceramic material at base of pin was cracked.</li> </ol>	н	New right-angle connector was installed.	Closed
A270	Directional antenna	2A11 Serial No. 8	<ol> <li>Alignment shaft was contaminated internally with dirt, and metal and fiber filings.</li> <li>RF connector at base of feed showed zero retention.</li> <li>Right-angle RF connector was in loose alignment. Pin would not center for mating connector.</li> </ol>	н	Antenna was shipped to JPL for major rework, then returned for use on Mariner R-3.	Closed
A279	Transponder	2A1, 2A2 Serial No. 15	Degradation of threshold occurred.	1	Three modules were returned, which brought unit into acceptable limits. Test was continued; unit was not flight-acceptable.	Open
A320	Data encoder, GSE launch		(1) GSE could not be homed.	1.C	(1) Flipflop A8J23 in deck D was replaced.	Closed
	complex		(2) Improper operation occurred when unit was first turned on.	2.1	(2) All function boards were inspected and cleaned.	Closed
		<u> </u>	Central computer and sequ	encer		
11	Address register	5A6	Commands could not be given manually for AC13B and 14B.	DES	Missing jumper in 5A6 was installed.	Closed
41	End counter	5A3	Multiple blips appeared on data encoder.	DES	Capacitor and end counter were changed by ECR 4515 to give command signal to data encoder.	Closed

Failure			Failure				
report No.	Component Reference		Description	Type or cause	Action taken	Action status	
		Се	ntral computer and sequence	er (cont'd)			
46	System	5A4	Data encoder received extra blips from CC&S.	i (Assem)	Diodes in maneuver clock were reinstalled correctly.	Closed	
65	System		Actuation of roll, pitch, and motor-burn commands occurred at wrong time.	DES (GSE)	Several changes were installed on GSE to reduce Berkeley counter susceptibility to noise.	Closed	
66	System		Updating of launch counter crosstalked into end-counter updated circuitry, causing erroneous actuation of commands SC20F and 22F.	DES (GSE)	Several corrections were incorporated into system for evaluation.	Open	
67	System		No-go light was received from CC&S start check.	DES (GSE)	Circuitry in GSE panel was changed to eliminate false no-go condition,	Closed	
209	Central clock	5A1	38.4-kc frequency appeared to be unstable.	l	Test series was run on S/C and indicated that 38.4-kc acted normally.	Closed	
252	End counter	5A3	Extra pulses were introduced into the ÷2000 counter.	l and W	Threshold, transient, and CC&S-GSE interface tests revealed that encounter update line was in company with clear release light line. GSE cable was changed, and GSE was modified to decrease current switched at clear release time.	Closed	
A256	Transformer- rectifi <b>e</b> r	5A8	Relay position indicator on GSE was erratic. Capacitors were subjected to reverse current.	GSE	Capacitors C101 and C102 in 5A8 module were changed to insure reliability. GSE was changed to eliminate reverse voltage on capacitors.	Closed	
A264	System		Relay position indicator was erratic.	GSE	Capacitors C101 and C102 in 5A8 module were changed. GSE was changed to eliminate reverse voltage on capacitors.	Closed	
A278	System		Clear release relay indication occurred at 114 sec on Launch Complex counter, which indicated counter no-go condition.	GSE	This circuit was disabled in Launch Complex panel, since stop-watch method was found to be most satisfactory.	Closed	
			Power system				
32	400-cps power amplifier	4A8	Incorrect resistance reading was observed on pins of module because of shorted 1 N645 diode.	P	Diode was replaced and design reviewed. Diode application appeared correct, and it was demonstrated that instantaneous polarity reversal could cause diode failure.	Closed	

			Failure				
Failure report No.	Component	Reference designation	Description	Type or cause	Action taken	Action status	
•			Power system (cont'd)				
51	Booster regulator temperature transducer	4A4	Transducer failed high- potential test.	С	Part was replaced by new type of transducer.	Closed	
82	400-cps power amplifier	4A8	C-phase power supply was not in accordance with specifications.	С	Defective transistor was replaced and investigation was conducted by manufacturer to determine cause of component failure.	Open	
217	Booster regulator	4A4	2.4-kc supply had low- frequency beat when entire system was turned on. This caused attitude control Earth sensor to be inoperative.	DES	Problem was traced to unmatched B/R and PS&L units. It was recommended that B/R and PS&L be installed as one unit.	Closed	
230	Booster regulator	4A4	Mixed signal was noisy in ascillating range of booster regulator.	DES	Same as failure report 217,	Closed	
A288	Battery	4A14	Battery was at end point of life cycle.		Unit was replaced with flight battery.		
A310	Booster regulator Power switching	4A4 4A1	With this matched pair, system voltage was 35 v at 5.8 amp. (This was approximately 30 w	P	Booster oscillator was readjusted to normal 2800 cps.	Closed	
	and logic		in excess of desired level.				
A311	Booster regulator	4A4	Booster regulator output was low (50.99 v).	P	Output was adjusted to 52.0-v level per	Closed	
	Power switching and logic	4A1			specification.		
			Mechanical component	S			
39	Attitude control wire harness	9W7	Wave-form change occurred on one pin of connector when 7A13P1 was tapped or moved.		Cable was examined and tested, but no reason for failure was detected. Cable was considered unflightworthy.	Open	
54	Case harness	9W6	Lack of pin retention on pin 1 of plug 6K2P1 caused intermittent failure.	*	Connector was removed and replaced with new connector.	Closed	
59	Case harness	9W24	Intermittent open circuit occurred between two connectors.	C and W	New 9W24 harness was fabricated to replace old harness.	Closed	
64	Central recorder, GSE cable		Central recorder GSE cable was too short.	DES	Cable extension was installed.	Closed	
96	Case harness plug		Case harness plug was potted at wrong angle, making engagement impossible.	I	New connectors were added at correct angle.	Closed	

Failure			Failure				
report No.	Component	Reference designation	Type Description or cause		Action taken	Action status	
			Mechanical components (c	ont'd)			
203	Rubber bearings		Silicon rubber bearings were cracked on solar panel actuators.	С	Bearings were replaced and failure was investigated.	Open	
227	Antenna yoke assembly		During installation and removal of high-gain antenna, short strut near antenna collect nut was damaged. This could cause mirror misalignment.		Mirror and yoke assembly were aligned. Special wrenches were made for use in SAF to avoid recurrence of damage.		
233	Ring harness	9W1	Wire was disconnected from bundle when spot tie was removed.	w	Wires entering all connections on ring harness were inspected for solder defects, incipient fractures and broken strands.	Closed	
235	Cable	2W83MR	Cable from data display to pyrotechnics unit was damaged, causing pyro printer to malfunction.	Н	Cable was reworked and connection replaced. Personnel was cautioned as to correct handling.	Closed	
238	Cable	2W311MR	Cable from data display to central recorder was damaged in attempt to use too short length.	DES and H	New cables were built to A revision, print B119253.	Closed	
240	Case harness	9W6	Wire on connector 6A1P1 pulled loose from potting cup.	W	Harness was reworked by addition of longer wire.	Closed	
246	Case harness	9W4	With switch K-332-10 in PS&L in internal position, battery voltage was on 4A1P3. This caused pins of connector to burn while attempt was being made to connect 4A1P3 to 4A1J3.	P ond H	Ring harness connector should be disconnected during process of connecting or disconnecting PS&L.	Closed	
255	Antenna yoke temperature transducer	11176	Installation of temperature transducer on high-gain antenna yoke was inadequate for proper installation of gear-box-drive connector.	DES	Transducer was replaced in proper orientation.	Closed	
A292	Spacecraft cabling		Magnetic field on Mariner 2 was approximately 6 times larger than on Mariner 1, apparently because of wire routing,	DES	Science system had to be calibrated to compensate for routing deficiency.	Closed	
A301	Antenna drive actuator	7A11	Leak was present between gear box and cover.	С	O-ring was replaced.	Closed	
A318	Keensert	Leg B	Keensert in leg B rotated while ground strap was being removed.	MI	Keensert was replaced, and shorter bolts were used to fasten ground strap.	Closed	

# C. Mariner R-3 Failure Reports

		Component Reference designation	Failure			Action status	
Failure report No.	Component		Description	Type or cause	Action taken		
A261	Midcourse motor		Three leaks were detected in high-pressure nitrogen circuit.	MI and H	Sealing surfaces were cleaned and new O-rings installed; system then checked out leak-tight.	Closed	
A276	CC&S		CC&S preset counter did not set to preset number.	GSE	Logic circuitry in GSE panel was repaired to eliminate trouble.	Closed	
A277	Launch counter	5A2	Not as a normal procedure, when PT3A is set, after count of 3780 in counter, AC5A is also set.	ı	Phenomenon was inherent in mechanization of PT3A and AC5A. Behavior was considered normal and predictable.	Closed	
A279	Command decoder	3A4 Serial No. 6	T/M reading on channel 11 was not accurate representa- tion of VCO frequency.	С	C/D flipflop 20 would not switch to zero state. Part was returned to JPL for repair.	Open	
A288	Battery	4A14	Cell 4 dropped to zero voltage while on internal power.	С	Battery was shipped back to JPL for evaluation.	Closed	
A290	Gyro control electronics	7A2	110-v ac was momentarily applied to 40-v dc line.	н	After comprehensive module checks, components in rectifier circuit and diode across power relay were replaced.	Closed	

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